State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (09/13) Page 1 of 2

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

- ☐ Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ☐ Aboveground Petroleum Storage Tank System
- ☐ Dry Cleaner Facility
- ☒ Other - Describe: Limited Phase II ESA

ATTN DNR: **R & R Program Associate** Date DNR Notified: 02/05/2016

1. Discharge Reported By

Name	Firm	Phone No. (include area code)
Kevin Bugel	Giles Engineering Associates, Inc.	(262) 544-0118

Mailing Address	Email Address
N8 W22350 Johnson Drive, Suite A1 Waukesha, WI 53186	kbugel@gilesengr.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property. Vacant lot

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60. 4200-1220 West Burnham Street West Milwaukee. Wisconsin

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.
West Milwaukee

County:	Legal Description:	WTM:
Milwaukee	SW 1/4 NW 1/4 Sec 1 Tn 6 Range 21 ◉ E ○ W	X Y

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

TMPN Miller LLC and DEVO Miller LLC

☒ Reported in compliance with s. 292.11(2), Wis. Stats., by a local government exempt from liability under s. 292.11(9)(e), Wis. Stats. For more information see http://dnr.wi.gov/topic/Brownfields/Liability.html.

Contact Person Name (if different)	Phone Number	Email Address
Greg Devorkin (DEVO Properties)	(262) 240-1500	gid@devooffices.com

Mailing Address	City	State	ZIP Code
11518 North Port Washington Road, Suite 103	Mequon	WI	53092

Property owner if Different From RP: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email Address

Mailing Address	City	State	ZIP Code

(continued)

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- [X] VOC's
- [X] PAH's
- [X] Metals (specify): Cadmium
- [X] Arsenic
- [ ] Chromium
- [ ] Cyanide
- [X] Lead
- [ ] PCB's
- [ ] Diesel
- [ ] Fuel Oil
- [ ] Gasoline
- [ ] Hydraulic Oil
- [ ] Jet Fuel
- [ ] Mineral Oil
- [ ] Waste Oil
- [ ] Petroleum-Unknown Type
- [ ] PERC (Dry Cleaners)
- [ ] RCRA Hazardous Waste
- [ ] Leachate
- [ ] Fertilizer
- [ ] Pesticide/Herbicide/Insecticide(s)
- [ ] Other (specify): _____
- [ ] Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ___ Air Contamination
- ___ Co-Contamination (Petroleum & Non-Petroleum)
- ___ Contamination Within 1 Meter of Bedrock
- ___ Contaminated Private Well
- ___ Contaminated Public Well
- ___ Contamination in Fractured Bedrock
- ___ Sanitary Sewer Contamination
- ___ Contamination in Right of Way
- ___ Fire Explosion Threat
- ___ Free Product
- ___ Groundwater Contamination
- ___ Off-Site Contamination
- ___ Other (specify): _____
- K Soil Contamination
- ___ Storm Sewer
- ___ Surface Water Contamination
- ___ Within 100 ft of Private Well
- ___ Within 1000 ft of Public Well

Contamination was discovered as a result of:

- [ ] Tank closure assessment — Date
- [X] Site assessment — Date 08/13/2015
- [ ] Other - Describe: _____ — Date

Lab results: [ ] Lab results will be faxed upon receipt [X] Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Apparent PAH and VOC and select metals impacts related to the former use of the property, and/or imported fill into the property at the time it was initially developed in the 1900's.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from UST's occurring after 9/30/2007 please provide the following information:

[X] Does not apply.

Source

- [ ] Tank
- [ ] Piping
- [ ] Dispenser
- [ ] Submersible Turbine Pump
- [ ] Delivery Problem
- [ ] Other (specify): _____

Cause

- [ ] Spill
- [ ] Overfill
- [ ] Corrosion
- [ ] Physical or Mechanical Damage
- [ ] Installation Problem
- [ ] Other (does not fit any of above)
- [X] Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (FAX: 920-662-5197); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov
Brown, Calumet, Door, Fond du Lac **(except City of Waupun - see South Central Region)**, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov
Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov
Columbia, Dane, Dodge, Fond du Lac **(City of Waupun only)**, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov
Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov
Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

GILES
ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

- Atlanta, GA
- Baltimore, MD
- Dallas, TX
- Los Angeles, CA
- Manassas, VA
- Milwaukee, WI

RECEIVED
FEB 09 2016
BY:

February 5, 2016

Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

Attention: Ms. Nancy Ryan, Hydrogeologist c/o Mr. David Hanson, Environmental Program Associate

Subject: Release Notification Letter
Proposed Development
4200-4220 West Burnham Street
West Milwaukee, Wisconsin
Project No. 1E-1508005

Dear Ms. Ryan:

On behalf of TMPN Miller LLC and Devo Miller LLC, Giles Engineering Associates, Inc. (Giles) respectfully submits this notice of a non-emergency hazardous substance discharge for the property ("Site") located at 4200-4220 West Burnham Street West Milwaukee, Wisconsin (Figure 1). Evidence of a release was documented during the completion of a limited Phase II Environmental Site Assessment (ESA) performed at the above-referenced property in August 2015.

Select volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and metals were detected in soil at concentrations above their respective Wisconsin Administrative Code (WAC), Chapter NR 720 Residual Contaminant Levels (RCLs) for direct contact and/or groundwater protection. However, no VOCs were detected in the groundwater samples collected at the Site. In addition, low level VOCs were detected in soil gas samples at levels well below the WDNRs criterion for a vapor intrusion threat.

The results and findings of the Limited Phase II ESA suggest that detected impacts are indicative of a fill condition at the Site. A WDNR (Non-Emergency) Notification for Hazardous Substance Discharge Form 4400-225 is enclosed with this submittal along with a reference figure (Figure 2) analytical tables and laboratory analytical results.

GILES ENGINEERING ASSOCIATES, INC.

CLOSING
Please forward future correspondence to the property ownership group:

TMPN Miller LLC and Devo Miller LLC)
c/o Devo Properties
11518 N. Port Washington Road, Suite 103
Mequon, Wisconsin 53092
Attn: Greg Devorkin

If there are any questions regarding the information contained herein, please contact the undersigned at your convenience.

Sincerely,

GILES ENGINEERING ASSOCIATES, INC.

Kelly M. Hayden
Staff Scientist

Kevin T. Bugel, C.P.G., P.G.
Environmental Division Manager

Enclosures: WDNR Form 4400-225

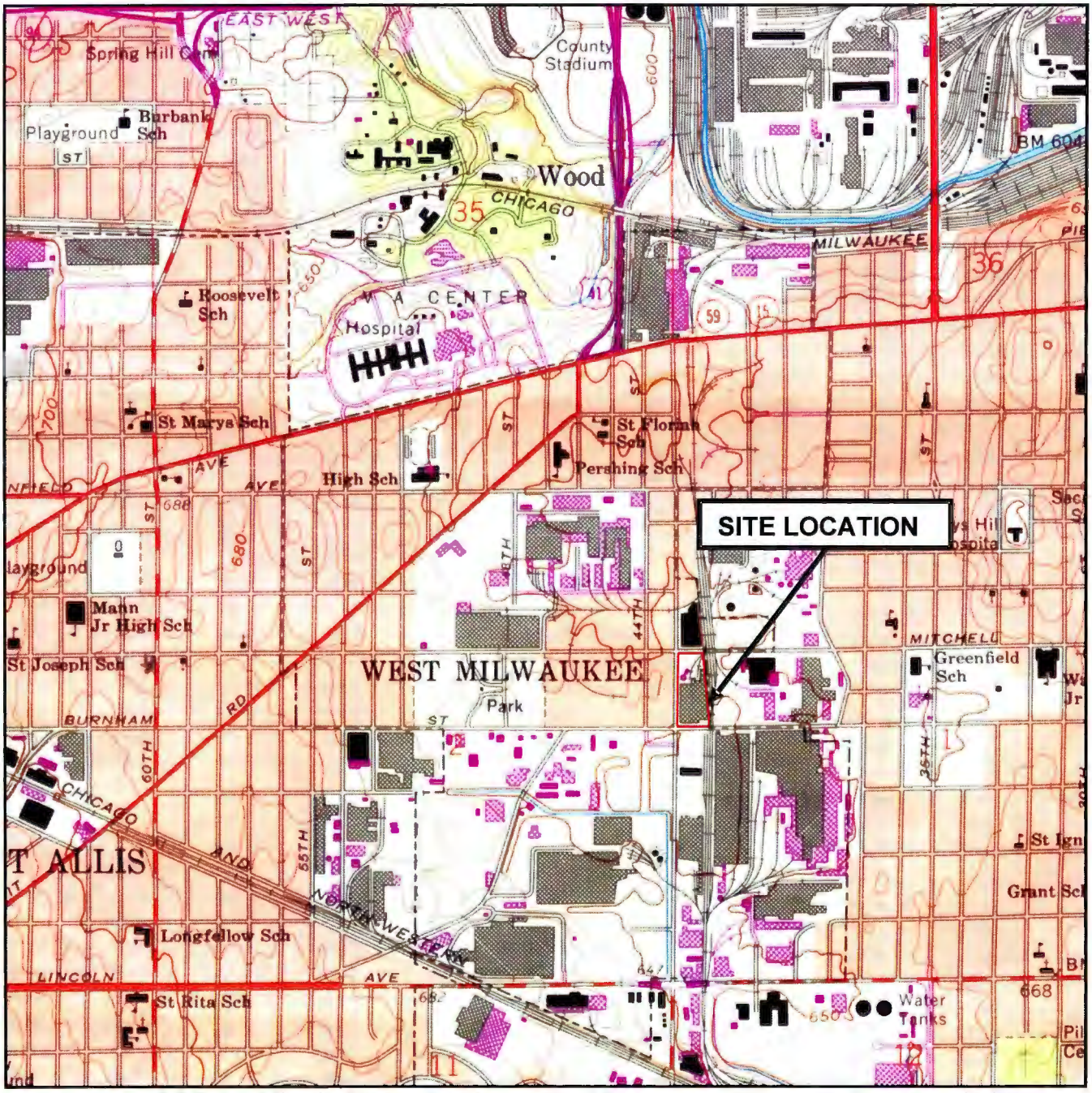
Figure 1: Site Location Map
Figure 2: Site Plan

Table 1: Soil Analytical Results Summary – Detected VOCs
Table 2: Soil Analytical Results Summary – Detected PAHs
Table 3: Soil Analytical Results Summary – Detected RCRA Metals
Table 4: Soil Gas Analytical Results Summary – Detected VOCs

Soil Laboratory Analytical Report
Soil Gas Laboratory Analytical Report
Groundwater Laboratory Analytical Report

Distribution: Wisconsin Department of Natural Resources
Attn: Nancy Ryan c/o David Hanson (1 via USPS)

© Giles Engineering Associates, Inc. 2016



Source: USGS 7.5 Minute Series (topographic) *Milwaukee, Wisconsin* Quadrangle Map (1958; photorevised 1971)

Scale: 1:24,000 (1"=2000')
Contour Interval: 10 Feet

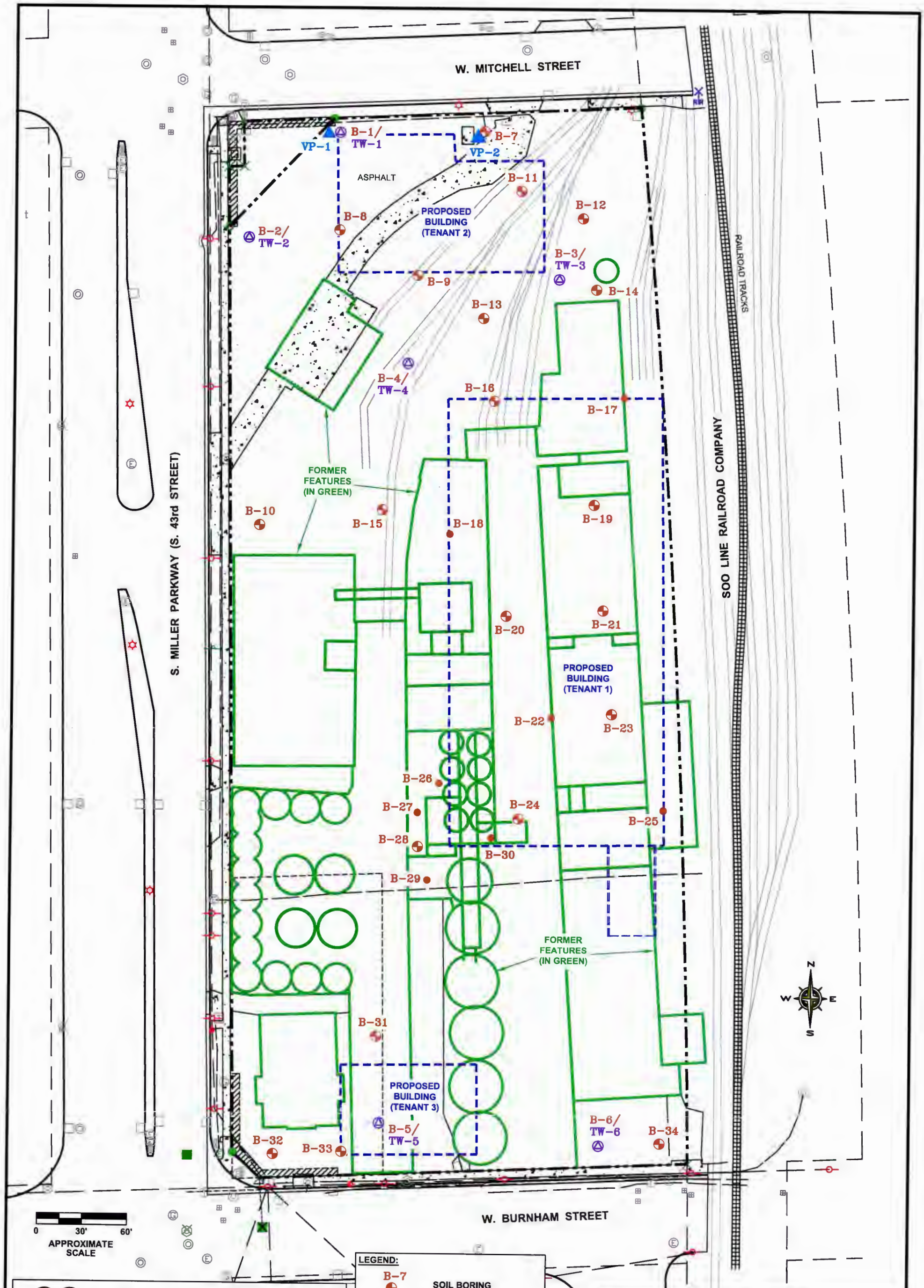




Figure 1
Site Location Map

Proposed Development
4200-4220 West Burnham Street
West Milwaukee, Wisconsin
Project No. 1E-1508005

GILES
ENGINEERING ASSOCIATES, INC.



LEGEND:

B-7	SOIL BORING
B-17	SOIL SAMPLE AT BACKHOE DIG
B-1/ TW-1	SOIL BORING / TEMPORARY WELL
VP-1	SOIL VAPOR PROBE
	PROPERTY LINE

NOTES:

1.) BORING LOCATIONS ARE APPROXIMATE.

2.) EXISTING FEATURES DEVELOPED FROM THE CAD FILE (ACAD-EX001D40.dwg), PROVIDED ELECTRONICALLY BY R.A. SMITH NATIONAL, INC. ON 7-30-15.

3.) PROPOSED FEATURES ARE APPROXIMATE BASED ON THE "ARCHITECTURAL SITE/SCOPE PLAN" (SHEET C0.01), DATED 8-3-15, PREPARED BY MADISEN MAHER ARCHITECTS.

4.) FORMER FEATURES ARE APPROXIMATE BASED ON HISTORIC MAPS AND THE "PLAT OF SURVEY", DATED 8-1-05, PREPARED BY AMERICAN SURVEYING COMPANY, INC.

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)544-0118

FIGURE 2
SITE PLAN
PROPOSED DEVELOPMENT
4200 W. BURNHAM STREET
WEST MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB	JSZ	approx. 1"=60'	08-20-15	--
PROJECT NO.: 1E-1508005			CAD No. 1E1508005A	

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY-DETECTED VOCS
Proposed Development
4200 West Burnham Road
West Milwaukee, Wisconsin
1E-1508005

Analyte	Sample Location																						NR 720 RCL[1] (µg/kg)	
	B-1		B-2		B-3	B-4	B-5	B-6	B-7		B-8	B-9		B-10		B-11	B-12	B-13	B-14	B-15			Soil to Groundwater Pathway	Direct-Contact Pathway (Non-Industrial)
Sample Depth (feet)	0-2	10-12	0-2	10-12	12-14	8-10	10-12	12-14	2-4	8-10	0-2	2-4	8-10	0-2	0-4	0-2	8-10	2-4	8-10	2-4	8-10			
Sample Collection Date	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/1/2015	8/11/2015	8/12/2015	8/12/2015	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/12/2015	8/12/2015	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/12/2015	8/14/2015			
PID (instrument units)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5			
PCB, Total (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		9.4	221
Detected VOCs (µg/kg)																								
Benzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56	--		5.1	1490
Carbon tetrachloride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	67 J	--	--	--		3.9	854
Ethylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71	26	22	--		1,570	7,470
Tetrachloroethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		4.5	NS
Toluene	--	--	--	--	--	--	--	--	--	--	29	--	--	--	--	--	--	67	73	190	--		1,107	818,000
1,2,4-TMB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	230	43 J	59 J	--		1,379	89,800
1,3,5- TMB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	70 J	--	--	--			182,000
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		140	640,000
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	260	280	--	--		659	5,150
n-Butylbezene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46 J	--	--	--		NS	108,000
N-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66 J	--	--	--		NS	264,000
sec-Butylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		NS	145,000
tert-Butylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		NS	183,000
Xylenes, Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18 J	--	230	160	210	--		NS	258,000

Notes:

(1): Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels from WDNR RCL Spreadsheet updated June 2015
RCLs: Residual Contaminant Levels
PID: Photoionization Detector
VOCS: Volatile Organic Compounds
µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
J: Concentration reported between the laboratory method detection limit and the reporting limit.
B: Compound detected in both the sample and the method blank
*: LCS or LCSD is outside acceptance limits
-- : Not detected above laboratory method detection limit
NS: *No Standard*
Result shown "underlined/red" exceeds the calculated RCL for the soil to groundwater pathway
Result shown "parenthesis /(green)" exceeds the calculated RCL for the non-industrial land use direct-contact pathway.

TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS SUMMARY-DETECTED VOCS
Proposed Development
4200 West Burnham Road
West Milwaukee, Wisconsin
1E-1508005

Analyte	Sample Location																				NR 720 RCL[1] (µg/kg)	
	B-16		B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24		B-25	B-26	B-27	B-28	B-29	B-30	B-31	B-32	B-33	B-34	Soil to Groundwater Pathway	Direct-Contact Pathway (Non-Industrial)
Sample Depth (feet)	2-4	8-10	0-4	0-4	42163	2-4	6-8	0-4	4-7	2-4	8-10	0-4	0-1	0-1	0-2	0-1	0-1	2-4	8-10	0-2	2-4		
Sample Collection Date	8/12/2015	8/12/2015	8/13/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015	8/13/2015	8/13/2015	8/13/2015	8/12/2015	8/13/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015	8/12/2015		
PID (instrument units)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
PCB, Total (ug/kg)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(870)	--	--	--	--	--	--	9.4	221
Detected VOCs (µg/kg)																							
Benzene	--	--	72	--	--	--	25 J	--	--	38	--	--	--	--	--	--	--	--	--	--	--	5.1	1490
Carbon tetrachloride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.9	854
Ethylbenzene	37	--	760	--	--	--	--	--	--	66	--	--	--	--	--	--	--	--	--	--	--	1,570	7,470
Tetrachloroethene	110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5	NS
Toluene	200	--	1,400 B	--	--	23	38		18 B	260 B	--	--	--	--	--	--	--	--	--	--	--	1,107	818,000
1,2,4-TMB	180 J	--	1,100	--	--	--	--	--	--	97 J	--	--	--	--	--	--	--	--	--	--	--	1,379	89,800
1,3,5- TMB	--	--	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		182,000
1,1,1-Trichloroethane	79 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	140	640,000
Naphthalene	290	--	1,100	--	320	--	--	--	--	240	--	--	--	--	--	--	--	--	--	--	--	659	5,150
n-Butylbezene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	108,000
N-Propylbenzene	--	--	460	--	--	--	--	--	--	52 J	--	--	--	--	--	--	--	--	--	--	--	NS	264,000
sec-Butylbenzene	--	--	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	145,000
tert-Butylbenzene	--	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	183,000
Xylenes, Total	370	--	3,000*	--	--	--	--	--	--	490*	--	--	--	--	--	--	--	31*	--	--	--	NS	258,000

Notes:

(1): Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels from WDNR RCL Spreadsheet updated June 2015

RCLs: Residual Contaminant Levels

PID: Photoionization Detector

VOCS: Volatile Organic Compounds

µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)

J: Concentration reported between the laboratory method detection limit and the reporting limit.

B: Compound detected in both the sample and the method blank

*: LCS or LCSD is outside acceptance limits

-- : Not detected above laboratory method detection limit

NS: No Standard

Result shown "underlined/red" exceeds the calculated RCL for the soil to groundwater pathway

Result shown "parenthesis /(green)" exceeds the calculated RCL for the non-industrial land use direct-contact pathway.

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY-DETECTED PAHS
Proposed Development
4200 West Burnham Road
West Milwaukee, Wisconsin
1E-1508005

Analyte	Sample Location																NR 720 RCL[1] (µg/kg)	
	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13	B-14	B-15		Soil to Groundwater Pathway	Direct-Contact Pathway (Non-Industrial)
Sample Depth (feet)	10-12	10-12	12-14	8-10	10-12	12-14	8-10	0-2	8-10	0-4	0-2	8-10	2-4	8-10	2-4	8-10		
Sample Date	8/11/2015	8/11/2015	8/1/2015	8/11/2015	8/12/2015	8/12/2015	8/11/2015	8/11/2015	8/11/2015	8/12/2015	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/12/2015	8/14/2015		
PID (instrument units)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Detected PAHs (µg/kg)																		
Acenaphthene	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	3,440,000
Acenaphthylene	---	--	--	--	--	--	--	--	--	--	49 J	--	--	--	--	--	NS	NS
Anthracene	---	--	--	--	320	--	--	300	22 J	--	170 J	--	47	32 J	56	--	197,727	17,200,000
Benzo (a) anthracene	---	--	--	--	620	--	--	(1500)	7.4 J	24 J	(550)	--	92	74	(210)	--	NS	148
Benzo (b) fluoranthene	---	--	--	--	800	--	--	2000	--	46	1100	--	--	150	(360)	--	479	148
Benzo (k) fluoranthene	---	--	--	--	250	--	--	800	--	19 J	520	--	--	64	150	--	NS	1,480
Benzo (a) pyrene	---	--	--	--	470	--	--	1400	--	(28 J)	690	--	--	100	(200)	--	470	15
Benzo (g,h,i) perylene	---	--	--	--	220	--	--	320	--	15 J	240	--	--	52	73	--	NS	NS
Chrysene	---	--	--	--	630	--	--	1,600	--	38	630	--	160	150	250	--	145	14,800
Dibenz (a,h) anthracene	---	--	--	--	--	--	--	--	--	--	--	--	--	--	(25 J)	--	NS	15
Fluoranthene	---	37 J	--	--	1,200	--	--	2,600	23 J	36	1,000	--	150	140	350	--	88,878	2,290,000
Fluorene	---	---	--	--	--	--	--	--	--	--	39 J	--	--	--	--	--	14,803	2,290,000
Indeno (1,2,3-cd) pyrene	---	---	--	--	380	--	--	--	--	9.5 J	(250)	--	--	--	82	--	NS	148
1-Methylnaphthalene	---	---	--	--	--	--	--	--	--	11 J	--	--	500	130	480	--	NS	15,600
2-Methylnaphthalene	---	---	--	--	--	--	--	--	--	10 J	--	--	590	160	500	--	NS	229,000
Naphthalene	---	---	--	--	--	--	--	150 J	--	5.5 J	27 J	--	370	220	370	--	658	5150
Phenanthrene	---	---	--	--	660	--	--	840	27 J	27 J	630	--	390	200	510	--	NS	NS
Pyrene	---	25 J	--	--	1,200	--	--	2,800	8.1 JF1	53	1500	--	190	100	530	--	54,132	1,720,000

Notes:
(1): Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels from WDNR RCL Spreadsheet updated June 2015.
RCLs: Residual Contaminant Levels
PID: Photoionization Detector
PAHs: Polynuclear Aromatic Hydrocarbons
µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
J: Concentration reported between the laboratory method detection limit and the reporting limit.
F1: MS and/or MSD Recovery is outside acceptance limits
-- : Not detected above laboratory method detection limit
NS: No Standard
Result shown "underlined/red" exceeds the calculated RCL for the soil to groundwater pathway
Result shown "parenthesis /(green)" exceeds the calculated RCL for the non-industrial land use direct-contact pathway.

TABLE 2 (Continued)
SOIL ANALYTICAL RESULTS SUMMARY-DETECTED PAHS
Proposed Development
4200 West Burnham Road
West Milwaukee, Wisconsin
1E-1508001

Analyte	Sample Location																NR 720 RCL[1] (µg/kg)	
	B-16		B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24		B-25	B-31	B-32	B-33	B-34	Soil to Groundwater Pathway	Direct-Contact Pathway (Non-Industrial)
Sample Depth (feet)	2-4	8-10	0-4	0-4	6-8	2-4	6-8	0-4	4-7	2-4	8-10	0-4	2-4	8-10	0-2	2-4		
Sample Date	8/12/2015	8/12/2015	8/13/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015	8/12/2015		
PID (instrument units)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Detected PAHs (µg/kg)																		
Acenaphthene	--	--	18 J	--	140 J	7.7 J	--	--	--	--	--	--	--	--	--	8.6 J	NS	3,440,000
Acenaphthylene	--	--	--	--	130 J	14 J	--	6.3 J	--	--	--	--	--	--	7.5 J	--	NS	NS
Anthracene	45	24 J	84	--	890	50	40 J	21 J	25 J	25 J	24 J	21 J	22 J	--	22 J	32 J	197,727	17,200,000
Benzo (a) anthracene	120	--	(230)	7.3 J	(1,600)	100	25 J	130	35	10 J	11 J	33 J	15 J	--	(180)	48	NS	148
Benzo (b) fluoranthene	(150)	13 J	(190)	10 J	(2,300)	130	41 J	(190)	40	--	12 J	46	21 J	--	(400)	57	479	148
Benzo (k) fluoranthene	49	--	230	--	1,100	62	--	63	--	--	--	--	--	--	170	--	NS	1,480
Benzo (a) pyrene	(95)	14 J	(180)	7.5 J	1,500	(110)	50 J	(140)	36	(16 J)	--	--	13 J	--	(230)	(37)	470	15
Benzo (g,h,i) perylene	44	--	80 F1	--	500	16 J	--	120	--	--	--	--	--	--	97	--	NS	NS
Chrysene	140	--	280	9.8 J	1,600	120	35 J	130	37	23 J	12 J	37	13 J	--	250	51	145	14,800
Dibenz (a,h) anthracene	--	--	--	--	(140 J)	(24 J)	--	(29 J)	--	--	--	--	--	--	(23 J)	--	NS	15
Fluoranthene	160	27 J	440	19 J	3,200	180	90	210	71	27 J	29 J	51	34 J	--	340	110	88,878	2,290,000
Fluorene	--	--	--	--	270	--	--	--	--	--	--	--	--	--	5.8 J	--	14,803	2,290,000
Indeno (1,2,3-cd) pyrene	36 J	30 J	110	--	(530)	68	--	110	--	--	31 J	--	--	--	100	31 J	NS	148
1-Methylnaphthalene	470	--	400	--	79 J	82	--	14 J	--	160	--	36	24 J	--	--	--	NS	15,600
2-Methylnaphthalene	490	--	440	--	83 J	66	--	16 J	--	150	--	35	15 J	--	--	--	NS	229,000
Naphthalene	280	--	210	--	98 J	67	42 J	15 J	--	160	--	9.7 J	38	--	--	25 J	658	5150
Phenanthrene	570	33 J	1000	9.1 J	2,400	160	67	93	50	92	28 J	110	41	--	110	68	NS	NS
Pyrene	290	--	540	11 J	4,800	150	71	180	48	--	12 J	56	17 J	--	560	85	54,132	1,720,000

Notes:
(1): Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels from WDNR RCL Spreadsheet updated June 2015.
RCLs: Residual Contaminant Levels
PID: Photoionization Detector
PAHs: Polynuclear Aromatic Hydrocarbons
µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
J: Concentration reported between the laboratory method detection limit and the reporting limit.
F1: MS and/or MSD Recovery is outside acceptance limits
-- : Not detected above laboratory method detection limit
NS: No Standard
Result shown "underlined/red" exceeds the calculated RCL for the soil to groundwater pathway
Result shown "parenthesis /(green)" exceeds the calculated RCL for the non-industrial land use direct-contact pathway.

TABLE 3

SOIL ANALYTICAL RESULTS SUMMARY-DETECTED RCRA METALS

Proposed Development

4200 West Burnham Road

West Milwaukee, Wisconsin

1E-1508005

Analyte	Sample Location							NR 720 RCL[1] (mg/kg)		
	B-8	B-15		B-17	B-23	B-28	B-31	Soil to Groundwater Pathway	Direct-Contact Pathway (Non-Industrial)	*Background Threshold Value
Sample Depth (feet)	0-2	2-4	8-10	0-4	4-7	0-2	2-4			
Sample Date	8/11/2015	8/12/2015	8/14/2015	8/13/2015	8/12/2015	8/12/2015	8/12/2015			
PID (instrument units)	<5	<5	<5	<5	<5	<5	<5			
Detected RCRA Metals (mg/kg)										
Arsenic	(8.4)	6.6	7.7	(12)	4.1	3.8	3.6	0.584	0.613	8.0
Cadmium	0.93 B	2.4 B	0.58 B	5.5 B	0.48 B	0.53 B	0.31 B	0.752	70	1.0
Lead	200	110	67 ^	39	170	35	11	27	400	52

Notes:

(1): Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels from WDNR RCL Spreadsheet updated June 2015.

PID: Photoionization Detector

RCRA: Resource Conservation and Recovery Act

mg/kg: Milligrams per kilogram; equivalent to parts per million (ppm)

RCLs: Residual Contaminant Levels

*Background Threshold Value (BTV) applies to industrial and non-industrial contact in the upper 4 feet of soil

J: Concentration reported between the laboratory method detection limit and the reporting limit.

B: Compound detected in both the sample and the method blank

NS: No Standard

^ : Instrument related QC is outside accptance limits

-- : Not detected above laboratory method detection limit

Result shown "underlined/red" exceeds the calculated RCL for the soil to groundwater pathway.

Result shown "parenthesis /(green)" exceeds the calculated RCL for the non-industrial land use direct-contact pathway.

TABLE 4

SOIL GAS ANALYTICAL RESULTS SUMMARY
Proposed Development
4200 West Burnham Road
West Milwaukee, Wisconsin
1E-1508005

Sample Location	VP-1	VP-2	WDNR Vapor Risk Screening Level for Deep (>5 feet) Soil Gas (µg/m^3)	
Sample Depth (feet below grade)	5-6	5-6		
Sample Date	8/12/15	8/12/15	Land Use	
Detected Volatile Organic Compound (µg/m^3)			Residential	Non-Residential
1,2,4-Trimethylbenzene	4.7	3.2	243	3100
Chloroethane	0.24 J	--	NS	NS
1,3,5-Trimethylbenzene	1.7	1.1	NS	NS
1,3-Dichlorobenzene	3.3	1.6	NS	NS
1,4-Dichlorobenzene	13	9.4	87	1100
Acetone	550	290	1,066,666	14,000,000
Benzene	17	1.6	120	1600
Carbon Disulfide	17	1.9	24,333	310,000
Carbon Tetrachloride	0.54 J	--	157	2000
Chlorobenzene	0.24 J	--	1,733	22,000
Chloroform	0.30 J	0.40 J	40	530
Chloromethane	--	0.45 J	3,133	39,000
Cyclohexane	19	2.8	33,333	440,000
Dichlorodifluoromethane	1.9 J	2.0 J	3,333	44,000
Ethylbenzene	8.8	2.0	367	4,900
Isopropyl Alcohol (isopropanol)	21	7.0 J	7,000	88,000
Isopropylbenzene (cumene)	0.79 J	0.30 J	14,000	180,000
m&p-Xylene	13	4.6	3,333	44,000
Methyl Ethyl Ketone (2-Butanone)	24	8.5	173,333	2,200,000
Methyl Isobutyl Ketone	53 B	3.5 B	103,333	1,300,000
Methylene Chloride	0.64 JB	0.65 JB	21,000	260,000
Naphthalene	0.56 J	0.91 J	28	360
Tetrahydrofuran	--	0.22 J	70,000	880,000
n-Hexane	33	2.0 J	24,333	310,000
1,1,1-Trichloroethane	12	4.4	173,333	2,200,000
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59 J	0.60 J	1,033,333	13,000,000
o-Xylene	4.4	1.8	3,333	44,000
Styrene	2.1	1.4	33,333	440,000
Tetrachloroethene	31	2.3	1,400	18,000
Toluene	45	11	173,333	2,200,000
Trichlorofluoromethane	7.7	180	24,333	310,000
Xylene (total)	17	6.6	3,333	44,000

Notes:

µg/m^3: microgram per cubic meter

-- : Not detected above laboratory method detection limit

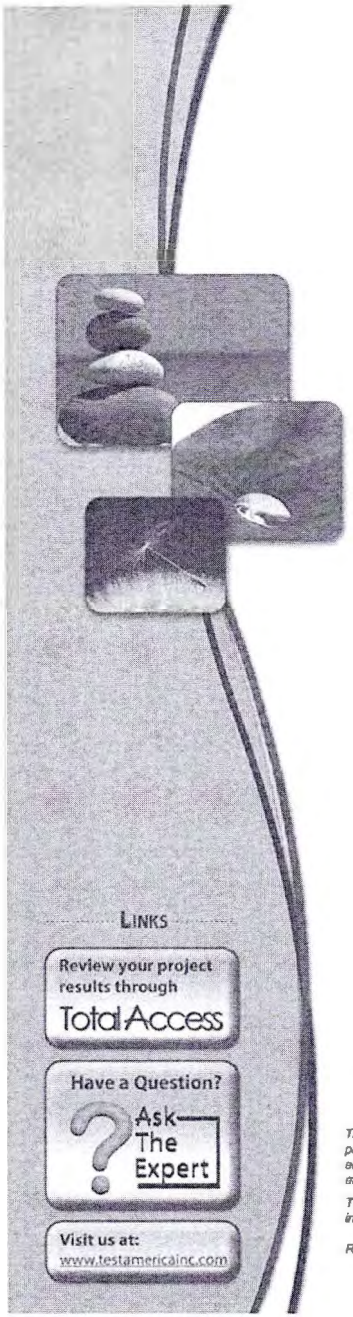
NS: no established standard

J: Concentration reported between the laboratory method detection limit and the reporting limit.

B: *Compound detected in both the sample and the method blank*

Results shown "parenthesis/(blue)" are detected above the indoor air USEPA regional screening level (RSL) for the lowest carcinogenic or non-carcinogenic value and/or WDNR vapor action level for residential land use.

Results shown "underlined/red" were detected above the indoor air USEPA RCL for for the lowest carcinogenic or non-carcinogenic value and/or WDNR vapor action level for industrial/non-residential land use



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-99817-1
Client Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

For:
Giles Engineering Associates
N8 W 22350 Johnson Road
Waukesha, Wisconsin 53186

Attn: Mr. Kevin Bugel

Sandie Fredrick

Authorized for release by:
8/19/2015 12:21:50 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-99817-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-99817-1

Comments
No additional comments

Receipt
The samples were received on 8/13/2015 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 5.9° C.

Receipt Exceptions
Received bottles for sample 1 with ID of B-1 0-1, logged per COC. Received bottles for sample 3 with ID of B-2 0-1, logged per COC. Didn't receive sample with ID of B-15 8-10. Only received 2 jars for sample 29. Received a soil Trip Blank in both coolers so added second one to COC and logged in.

GC/MS VOA
Method(s) 5035: extract vial has < 8 grams of sample in 10 ml of methanol. B-13 2-4 (500-99817-18), B-15 2-4 (500-99817-20) and B-16 2-4 (500-99817-21)

Method(s) 8260B: The method blank for preparation batch 300129 contained Toluene above the reporting limit (RL). There was insufficient sample to perform a re-extraction; therefore, the data has been reported. The analytical/instrument method blank was non-detect for all compounds.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batches 300128, 300129 and the analytical batch 300473 recovered outside control limits for one or more of the following analytes: trans-1,3-Dichloropropene, Styrene and Xylene (total). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: B-5 10-12 (500-99817-7), B-8 0-2 (500-99817-11), B-11 0-2 (500-99817-16), and B-19 6-8 (500-99817-23). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples: B-2 10-12 (500-99817-4), B-5 10-12 (500-99817-7), B-7 8-10 (500-99817-10), B-10 0-4 (500-99817-15), B-11 0-2 (500-99817-16), B-13 2-4 (500-99817-18), B-15 2-4 (500-99817-20), B-16 2-4 (500-99817-21), B-33 0-2 (500-99817-32), (500-99817-B-13-B MS) and (500-99817-B-13-C MSD) had Terphenyl-d14 biased high. All other surrogate recoveries were within limits. No further action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082: The TCX surrogate recovery for the following sample was outside control limits: B-8 0-2 (500-99817-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: B-28 0-2 (500-99817-29). The reagent lot number used was: 97315.

Method(s) 8082: The following sample was diluted to bring the concentration of target analytes within the calibration range: B-28 0-2 (500-99817-29). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-99817-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: B-1 0-2 — **Lab Sample ID: 500-99817-1**

No Detections.

Client Sample ID: B-1 10-12 — **Lab Sample ID: 500-99817-2**

No Detections.

Client Sample ID: B-2 0-2 — **Lab Sample ID: 500-99817-3**

No Detections.

Client Sample ID: B-2 10-12 — **Lab Sample ID: 500-99817-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	37	J	38	7.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	25	J	38	7.5	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-3 12-14 — **Lab Sample ID: 500-99817-5**

No Detections.

Client Sample ID: B-4 8-10 — **Lab Sample ID: 500-99817-6**

No Detections.

Client Sample ID: B-5 10-12 — **Lab Sample ID: 500-99817-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	320		170	29	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	620		170	23	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	470		170	33	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	800		170	37	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	220		170	55	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	250		170	50	ug/Kg	5	☼	8270D	Total/NA
Chrysene	630		170	47	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1200		170	32	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	360		170	44	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	660		170	24	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1200		170	34	ug/Kg	5	☼	8270D	Total/NA

Client Sample ID: B-6 12-14 — **Lab Sample ID: 500-99817-8**

No Detections.

Client Sample ID: B-7 2-4 — **Lab Sample ID: 500-99817-9**

No Detections.

Client Sample ID: B-7 8-10 — **Lab Sample ID: 500-99817-10**

No Detections.

Client Sample ID: B-8 0-2 — **Lab Sample ID: 500-99817-11**

Client Sample ID: B-8 0-2 (Continued) — **Lab Sample ID: 500-99817-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	29		18	8.2	ug/Kg	50	☼	8260B	Total/NA
Anthracene	300		180	30	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1500		180	24	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1400		180	35	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2000		180	39	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	820		180	59	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	800		180	54	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1600		180	50	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	2600		180	34	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	150	J	150	28	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	640		180	25	ug/Kg	5	☼	8270D	Total/NA
Pyrene	2600		180	36	ug/Kg	5	☼	8270D	Total/NA
Arsenic	9.4		1.0	0.48	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.93	B	0.21	0.060	mg/Kg	1	☼	6010B	Total/NA
Lead	200		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: B-9 2-4 — **Lab Sample ID: 500-99817-12**

No Detections.

Client Sample ID: B-9 8-10 — **Lab Sample ID: 500-99817-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	22	J	34	5.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	74	J	34	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	23	J	34	6.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27	J	34	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	91	JF1	34	6.9	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-10 0-2 — **Lab Sample ID: 500-99817-14**

No Detections.

Client Sample ID: B-10 0-4 — **Lab Sample ID: 500-99817-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	11	J	35	8.6	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	10	J	35	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	24	J	35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	28	J	35	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	46		35	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	15	J	35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	19	J	35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	38		35	9.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	36		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	9.5	J	35	9.2	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	5.5	J	35	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27	J	35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	53		35	7.0	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-11 0-2 — Lab Sample ID: 500-99817-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	18	J	29	4.0	ug/Kg	50		8260B	Total/NA
Acenaphthylene	49	J	180	23	ug/Kg	5		8270D	Total/NA
Anthracene	170	J	180	30	ug/Kg	5		8270D	Total/NA
Benzo[a]anthracene	550		180	24	ug/Kg	5		8270D	Total/NA
Benzo[a]pyrene	690		180	34	ug/Kg	5		8270D	Total/NA
Benzo[b]fluoranthene	1100		180	38	ug/Kg	5		8270D	Total/NA
Benzo[g,h,i]perylene	240		180	57	ug/Kg	5		8270D	Total/NA
Benzo[k]fluoranthene	520		180	52	ug/Kg	5		8270D	Total/NA
Chrysene	630		180	48	ug/Kg	5		8270D	Total/NA
Fluoranthene	1000		180	33	ug/Kg	5		8270D	Total/NA
Fluorene	39	J	180	25	ug/Kg	5		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	250		180	46	ug/Kg	5		8270D	Total/NA
Naphthalene	27	J	180	27	ug/Kg	5		8270D	Total/NA
Phenanthrene	630		180	25	ug/Kg	5		8270D	Total/NA
Pyrene	1500		180	35	ug/Kg	5		8270D	Total/NA

Client Sample ID: B-12 8-10 — Lab Sample ID: 500-99817-17

No Detections

Client Sample ID: B-13 2-4 — Lab Sample ID: 500-99817-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	230		170	18	ug/Kg	50		8260B	Total/NA
1,3,5-Trimethylbenzene	70	J	170	17	ug/Kg	50		8260B	Total/NA
Carbon tetrachloride	67	J	84	22	ug/Kg	50		8260B	Total/NA
Ethylbenzene	71		21	11	ug/Kg	50		8260B	Total/NA
Naphthalene	260		170	41	ug/Kg	50		8260B	Total/NA
n-Butylbenzene	45	J	84	11	ug/Kg	50		8260B	Total/NA
N-Propylbenzene	66	J	170	15	ug/Kg	50		8260B	Total/NA
Toluene	67		21	9.6	ug/Kg	50		8260B	Total/NA
Xylenes, Total	230		42	5.7	ug/Kg	50		8260B	Total/NA
1-Methylnaphthalene	500		37	9.1	ug/Kg	1		8270D	Total/NA
2-Methylnaphthalene	590		37	6.8	ug/Kg	1		8270D	Total/NA
Anthracene	47		37	6.2	ug/Kg	1		8270D	Total/NA
Benzo[a]anthracene	92		37	5.0	ug/Kg	1		8270D	Total/NA
Chrysene	160		37	10	ug/Kg	1		8270D	Total/NA
Fluoranthene	150		37	6.9	ug/Kg	1		8270D	Total/NA
Naphthalene	370		37	5.7	ug/Kg	1		8270D	Total/NA
Phenanthrene	390		37	5.2	ug/Kg	1		8270D	Total/NA
Pyrene	190		37	7.4	ug/Kg	1		8270D	Total/NA

Client Sample ID: B-14 8-10 — Lab Sample ID: 500-99817-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	43	J	160	17	ug/Kg	50		8260B	Total/NA
Ethylbenzene	25		20	10	ug/Kg	50		8260B	Total/NA
Naphthalene	280		160	39	ug/Kg	50		8260B	Total/NA
Toluene	73		20	9.1	ug/Kg	50		8260B	Total/NA
Xylenes, Total	160		40	5.4	ug/Kg	50		8260B	Total/NA
1-Methylnaphthalene	130		41	10	ug/Kg	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-14 8-10 (Continued) — Lab Sample ID: 500-99817-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	160		41	7.5	ug/Kg	1		8270D	Total/NA
Anthracene	32	J	41	6.8	ug/Kg	1		8270D	Total/NA
Benzo[a]anthracene	74		41	5.5	ug/Kg	1		8270D	Total/NA
Benzo[a]pyrene	100		41	7.9	ug/Kg	1		8270D	Total/NA
Benzo[b]fluoranthene	150		41	8.8	ug/Kg	1		8270D	Total/NA
Benzo[g,h,i]perylene	52		41	13	ug/Kg	1		8270D	Total/NA
Benzo[k]fluoranthene	64		41	12	ug/Kg	1		8270D	Total/NA
Chrysene	150		41	11	ug/Kg	1		8270D	Total/NA
Fluoranthene	140		41	7.6	ug/Kg	1		8270D	Total/NA
Naphthalene	220		41	6.3	ug/Kg	1		8270D	Total/NA
Phenanthrene	200		41	5.7	ug/Kg	1		8270D	Total/NA
Pyrene	100		41	8.1	ug/Kg	1		8270D	Total/NA

Client Sample ID: B-15 2-4 — Lab Sample ID: 500-99817-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	59	J	180	19	ug/Kg	50		8260B	Total/NA
Benzene	56		22	6.7	ug/Kg	50		8260B	Total/NA
Ethylbenzene	22		22	11	ug/Kg	50		8260B	Total/NA
Toluene	190		22	10	ug/Kg	50		8260B	Total/NA
Xylenes, Total	210		45	6.1	ug/Kg	50		8260B	Total/NA
1-Methylnaphthalene	480		39	9.7	ug/Kg	1		8270D	Total/NA
2-Methylnaphthalene	500		39	7.3	ug/Kg	1		8270D	Total/NA
Anthracene	56		39	6.6	ug/Kg	1		8270D	Total/NA
Benzo[a]anthracene	210		39	5.3	ug/Kg	1		8270D	Total/NA
Benzo[a]pyrene	200		39	7.7	ug/Kg	1		8270D	Total/NA
Benzo[b]fluoranthene	360		39	8.5	ug/Kg	1		8270D	Total/NA
Benzo[g,h,i]perylene	73		39	13	ug/Kg	1		8270D	Total/NA
Benzo[k]fluoranthene	150		39	12	ug/Kg	1		8270D	Total/NA
Chrysene	250		39	11	ug/Kg	1		8270D	Total/NA
Dibenz(a,h)anthracene	25	J	39	7.6	ug/Kg	1		8270D	Total/NA
Fluoranthene	350		39	7.3	ug/Kg	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	82		39	10	ug/Kg	1		8270D	Total/NA
Naphthalene	370		39	6.1	ug/Kg	1		8270D	Total/NA
Phenanthrene	510		39	5.5	ug/Kg	1		8270D	Total/NA
Pyrene	530		39	7.9	ug/Kg	1		8270D	Total/NA
Arsenic	3.6		1.2	0.54	mg/Kg	1		6010B	Total/NA
Cadmium	2.4	B	0.23	0.067	mg/Kg	1		6010B	Total/NA
Lead	110		0.55	0.29	mg/Kg	1		6010B	Total/NA

Client Sample ID: B-16 2-4 — Lab Sample ID: 500-99817-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	79	J	96	19	ug/Kg	50		8260B	Total/NA
1,2,4-Trimethylbenzene	180	J	190	20	ug/Kg	50		8260B	Total/NA
Ethylbenzene	37		24	12	ug/Kg	50		8260B	Total/NA
Naphthalene	290		190	47	ug/Kg	50		8260B	Total/NA
Tetrachloroethene	110		96	16	ug/Kg	50		8260B	Total/NA
Toluene	200		24	11	ug/Kg	50		8260B	Total/NA
Xylenes, Total	370		48	6.5	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-16 2-4 (Continued) — **Lab Sample ID: 500-99817-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	470		39	9.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	490		39	7.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	45		39	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		39	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	95		39	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	150		39	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	44		39	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	49		39	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	140		39	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	150		39	7.2	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	36	J	39	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	260		39	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	570		39	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	290		39	7.7	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-16 8-10 — **Lab Sample ID: 500-99817-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	24	J	36	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	14	J	36	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	13	J	36	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	27	J	36	6.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	30	J	36	9.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	33	J	36	5.0	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-19 6-8 — **Lab Sample ID: 500-99817-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	320		120	31	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	79	J	180	45	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	83	J	180	34	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	140	J	180	33	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	130	J	180	24	ug/Kg	5	☼	8270D	Total/NA
Anthracene	890		180	31	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1600		180	25	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1500		180	36	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2300		180	40	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	500		180	59	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1100		180	54	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1600		180	50	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	140	J	180	36	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	3200		180	34	ug/Kg	5	☼	8270D	Total/NA
Fluorene	270		180	26	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	530		180	48	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	98	J	180	28	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	2400		180	26	ug/Kg	5	☼	8270D	Total/NA
Pyrene	4800		180	37	ug/Kg	5	☼	8270D	Total/NA

Client Sample ID: B-20 2-4 — **Lab Sample ID: 500-99817-24**

Client Sample ID: B-20 2-4 (Continued) — **Lab Sample ID: 500-99817-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	23		17	7.8	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	82		35	8.6	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	66		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	7.7	J	35	6.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	14	J	35	4.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	50		35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	100		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110		35	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	130		35	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	16	J	35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	62		35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		35	9.6	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	24	J	35	6.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	180		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	68		35	9.1	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	67		35	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	160		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150		35	7.0	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-21 6-8 — **Lab Sample ID: 500-99817-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	25	J	30	9.0	ug/Kg	50	☼	8260B	Total/NA
Toluene	38		30	14	ug/Kg	50	☼	8260B	Total/NA
Anthracene	40	J	52	8.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	25	J	52	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	50	J	52	10	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	41	J	52	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	35	J	52	14	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	90		52	9.7	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	42	J	52	8.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	67		52	7.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	71		52	10	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-23 4-7 — **Lab Sample ID: 500-99817-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	18	B	14	6.3	ug/Kg	50	☼	8260B	Total/NA
Anthracene	25	J	35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	35		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	38		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	40		35	7.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	37		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	71		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	50		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	48		35	7.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	4.1		1.0	0.48	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.48	B	0.21	0.060	mg/Kg	1	☼	6010B	Total/NA
Lead	170		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: B-24 2-4 — Lab Sample ID: 500-99817-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	97	J	120	13	ug/Kg	50	☼	8260B	Total/NA
Benzene	38		15	4.5	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	66		15	7.7	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	240		120	30	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	52	J	120	11	ug/Kg	50	☼	8260B	Total/NA
Toluene	260	B	15	7.0	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	490	*	30	4.2	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	160		35	8.6	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	150		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Anthracene	25	J	35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	10	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	35	5.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	23	J	35	9.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	27	J	35	6.5	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	160		35	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	92		35	4.9	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-24 8-10 — Lab Sample ID: 500-99817-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	24	J	37	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	11	J	37	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	12	J	37	8.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	12	J	37	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	29	J	37	7.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	31	J	37	9.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28	J	37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	37	7.5	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-28 0-2 — Lab Sample ID: 500-99817-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	870		91	30	ug/Kg	5	☼	8082	Total/NA
Arsenic	3.8		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.53	B	0.21	0.061	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: B-31 2-4 — Lab Sample ID: 500-99817-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	31	*	29	4.0	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	24	J	35	8.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	15	J	35	6.4	ug/Kg	1	☼	8270D	Total/NA
Anthracene	22	J	35	5.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	15	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	13	J	35	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	21	J	35	7.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	35	9.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	34	J	35	6.5	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	38		35	5.4	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-31 2-4 (Continued) — Lab Sample ID: 500-99817-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	41		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	17	J	35	6.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.6		1.0	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31	B	0.21	0.061	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: B-32 8-10 — Lab Sample ID: 500-99817-31

No Detections

Client Sample ID: B-33 0-2 — Lab Sample ID: 500-99817-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7.5	J	34	4.5	ug/Kg	1	☼	8270D	Total/NA
Anthracene	22	J	34	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		34	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	230		34	6.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	400		34	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	97		34	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	170		34	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		34	9.3	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	23	J	34	6.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	340		34	6.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	5.8	J	34	4.8	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100		34	8.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		34	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		34	6.8	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: B-34 2-4 — Lab Sample ID: 500-99817-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	9.6	J	36	6.4	ug/Kg	1	☼	8270D	Total/NA
Anthracene	32	J	36	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	48		36	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	37		36	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	57		36	7.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	51		36	9.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110		36	6.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	31	J	36	9.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	25	J	36	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	68		36	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	85		36	7.1	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-99817-34

No Detections

Client Sample ID: Trip Blank — Lab Sample ID: 500-99817-35

No Detections

Method Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-99817-1	B-1 0-2	Solid	08/11/15 09:25	08/13/15 10:30
500-99817-2	B-1 10-12	Solid	08/11/15 09:40	08/13/15 10:30
500-99817-3	B-2 0-2	Solid	08/11/15 11:15	08/13/15 10:30
500-99817-4	B-2 10-12	Solid	08/11/15 11:25	08/13/15 10:30
500-99817-5	B-3 12-14	Solid	08/11/15 15:40	08/13/15 10:30
500-99817-6	B-4 8-10	Solid	08/11/15 16:15	08/13/15 10:30
500-99817-7	B-5 10-12	Solid	08/12/15 07:50	08/13/15 10:30
500-99817-8	B-6 12-14	Solid	08/12/15 09:30	08/13/15 10:30
500-99817-9	B-7 2-4	Solid	08/11/15 13:05	08/13/15 10:30
500-99817-10	B-7 8-10	Solid	08/11/15 13:15	08/13/15 10:30
500-99817-11	B-8 0-2	Solid	08/11/15 13:00	08/13/15 10:30
500-99817-12	B-9 2-4	Solid	08/11/15 12:20	08/13/15 10:30
500-99817-13	B-9 8-10	Solid	08/11/15 12:40	08/13/15 10:30
500-99817-14	B-10 0-2	Solid	08/12/15 11:55	08/13/15 10:30
500-99817-15	B-10 0-4	Solid	08/12/15 12:00	08/13/15 10:30
500-99817-16	B-11 0-2	Solid	08/11/15 13:30	08/13/15 10:30
500-99817-17	B-12 8-10	Solid	08/11/15 14:20	08/13/15 10:30
500-99817-18	B-13 2-4	Solid	08/11/15 16:35	08/13/15 10:30
500-99817-19	B-14 8-10	Solid	08/11/15 14:50	08/13/15 10:30
500-99817-20	B-15 2-4	Solid	08/12/15 12:55	08/13/15 10:30
500-99817-21	B-16 2-4	Solid	08/12/15 13:20	08/13/15 10:30
500-99817-22	B-16 8-10	Solid	08/12/15 13:25	08/13/15 10:30
500-99817-23	B-19 6-8	Solid	08/12/15 13:40	08/13/15 10:30
500-99817-24	B-20 2-4	Solid	08/12/15 14:50	08/13/15 10:30
500-99817-25	B-21 6-8	Solid	08/12/15 13:55	08/13/15 10:30
500-99817-26	B-23 4-7	Solid	08/12/15 14:15	08/13/15 10:30
500-99817-27	B-24 2-4	Solid	08/12/15 14:30	08/13/15 10:30
500-99817-28	B-24 8-10	Solid	08/12/15 14:40	08/13/15 10:30
500-99817-29	B-28 0-2	Solid	08/12/15 11:25	08/13/15 10:30
500-99817-30	B-31 2-4	Solid	08/12/15 10:55	08/13/15 10:30
500-99817-31	B-32 8-10	Solid	08/12/15 10:10	08/13/15 10:30
500-99817-32	B-33 0-2	Solid	08/12/15 10:30	08/13/15 10:30
500-99817-33	B-34 2-4	Solid	08/12/15 08:40	08/13/15 10:30
500-99817-34	Trip Blank	Solid	08/11/15 00:00	08/13/15 10:30
500-99817-35	Trip Blank	Solid	08/11/15 00:00	08/13/15 10:30

Client Sample ID: B-1 0-2
Date Collected: 08/11/15 09:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-1
Matrix: Solid
Percent Solids: 90.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1
PCB-1221	<7.7		18	7.7	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1
PCB-1248	<6.9		18	6.9	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1
PCB-1260	<8.6		18	8.6	ug/Kg	☼	08/13/15 17:02	08/14/15 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	91		50 - 116	08/13/15 17:02	08/14/15 01:40	1
DCB Decachlorobiphenyl	101		48 - 142	08/13/15 17:02	08/14/15 01:40	1

Client Sample ID: B-1 10-12
Date Collected: 08/11/15 09:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-2
Matrix: Solid
Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		130	23	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,1,1-Trichloroethane	<13		66	13	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,1,2,2-Tetrachloroethane	<16		66	16	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,1,2-Trichloroethane	<19		66	19	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,1-Dichloroethane	<12		66	12	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,1-Dichloroethene	<20		66	20	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,1-Dichloropropene	<23		66	23	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2,3-Trichloropropane	<38		130	38	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2,4-Trichlorobenzene	<25		130	25	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2-Dibromo-3-Chloropropane	<58		130	58	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2-Dibromoethane	<21		130	21	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2-Dichlorobenzene	<14		130	14	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2-Dichloroethane	<19		66	19	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,2-Dichloropropane	<13		66	13	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,3,5-Trimethylbenzene	<14		130	14	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,3-Dichloropropane	<8.9		66	8.9	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
1,4-Dichlorobenzene	<12		130	12	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
2,2-Dichloropropane	<21		66	21	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
2-Chlorotoluene	<14		66	14	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
4-Chlorotoluene	<13		66	13	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Benzene	<4.9		17	4.9	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Bromobenzene	<28		130	28	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Bromochloromethane	<25		130	25	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Bromoform	<29		130	29	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Bromomethane	<45		130	45	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Carbon tetrachloride	<17		66	17	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Chlorobenzene	<9.5		66	9.5	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Chloroethane	<29		130	29	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50

Client Sample ID: B-1 10-12
Date Collected: 08/11/15 09:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-2
Matrix: Solid
Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<14		66	14	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Chloromethane	<31		130	31	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
cis-1,2-Dichloroethene	<8.2		66	8.2	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
cis-1,3-Dichloropropene	<12		66	12	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Dibromochloromethane	<23		130	23	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Dibromomethane	<32		130	32	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Dichlorodifluoromethane	<34		130	34	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Ethylbenzene	<8.4		17	8.4	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Hexachlorobutadiene	<23		130	23	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Isopropyl ether	<9.8		130	9.8	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Isopropylbenzene	<17		130	17	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Methyl tert-butyl ether	<29		130	29	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Methylene Chloride	<45		330	45	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Naphthalene	<33		120	33	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
n-Butylbenzene	<8.6		66	8.6	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
N-Propylbenzene	<12		130	12	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
sec-Butylbenzene	<10		66	10	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Styrene	<6.6		66	6.6	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
tert-Butylbenzene	<9.0		66	9.0	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Tetrachloroethene	<11		66	11	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Toluene	<7.6		17	7.6	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
trans-1,2-Dichloroethene	<17		66	17	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
trans-1,3-Dichloropropene	<14	*	66	14	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Trichloroethene	<12		33	12	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Trichlorofluoromethane	<28		130	28	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Vinyl chloride	<6.9		17	6.9	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50
Xylenes, Total	<4.5		33	4.5	ug/Kg	☼	08/11/15 09:40	08/18/15 18:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	112		75 - 125	08/11/15 09:40	08/18/15 18:05	50
4-Bromofluorobenzene (Surr)	90		75 - 120	08/11/15 09:40	08/18/15 18:05	50
Dibromofluoromethane	111		75 - 120	08/11/15 09:40	08/18/15 18:05	50
Toluene-d8 (Surr)	107		75 - 120	08/11/15 09:40	08/18/15 18:05	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.0		37	9.0	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
2-Methylnaphthalene	<5.8		37	6.8	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Acenaphthene	<5.7		37	6.7	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Anthracene	<3.2		37	6.2	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Benzo[a]pyrene	<7.2		37	7.2	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Benzo[b]fluoranthene	<8.0		37	8.0	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Chrysene	<10		37	10	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Fluoranthene	<5.9		37	6.9	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1

Client Sample ID: B-1 10-12
Date Collected: 08/11/15 09:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-2
Matrix: Solid
Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<5.2		37	5.2	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Indeno[1,2,3-cd]pyrene	<9.6		37	9.6	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Naphthalene	<5.7		37	5.7	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Phenanthrene	<5.2		37	5.2	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1
Pyrene	<7.4		37	7.4	ug/Kg	☼	08/16/15 19:20	08/18/15 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	08/16/15 19:20	08/18/15 03:51	1
Nitrobenzene-d5 (Surr)	90		25 - 115	08/16/15 19:20	08/18/15 03:51	1
Terphenyl-d14 (Surr)	109		36 - 134	08/16/15 19:20	08/18/15 03:51	1

Client Sample ID: B-2 0-2
Date Collected: 08/11/15 11:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-3
Matrix: Solid
Percent Solids: 85.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		18	6.5	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1
PCB-1221	<8.1		18	8.1	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1
PCB-1254	<4.0		18	4.0	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1
PCB-1260	<9.0		18	9.0	ug/Kg	☼	08/13/15 17:02	08/14/15 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		50 - 116	08/13/15 17:02	08/14/15 01:53	1
DCB Decachlorobiphenyl	90		48 - 142	08/13/15 17:02	08/14/15 01:53	1

Client Sample ID: B-2 10-12
Date Collected: 08/11/15 11:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-4
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		140	25	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,1,1-Trichloroethane	<14		72	14	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,1,2,2-Tetrachloroethane	<17		72	17	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,1,2-Trichloroethane	<20		72	20	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,1-Dichloroethane	<13		72	13	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,1-Dichloroethene	<22		72	22	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,1-Dichloropropene	<25		72	25	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2,3-Trichlorobenzene	<25		140	25	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2,3-Trichloropropane	<41		140	41	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2,4-Trichlorobenzene	<27		140	27	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2-Dibromo-3-Chloropropane	<62		140	62	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2-Dichlorobenzene	<15		140	15	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,2-Dichloroethane	<20		72	20	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1503001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-2 10-12
Date Collected: 08/11/15 11:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-4
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<14		72	14	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,3,5-Trimethylbenzene	<15		140	15	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,3-Dichloropropane	<9.6		72	9.6	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
2,2-Dichloropropane	<23		72	23	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
2-Chlorotoluene	<15		72	15	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
4-Chlorotoluene	<14		72	14	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Benzene	<5.3		18	5.3	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Bromobenzene	<30		140	30	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Bromochloromethane	<27		140	27	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Bromoform	<32		140	32	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Bromomethane	<49		140	49	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Carbon tetrachloride	<18		72	18	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Chlorobenzene	<10		72	10	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Chloroethane	<31		140	31	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Chloroform	<15		72	15	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Chloromethane	<33		140	33	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
cis-1,2-Dichloroethene	<8.8		72	8.8	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
cis-1,3-Dichloropropene	<13		72	13	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Dibromochloromethane	<25		140	25	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Dibromomethane	<34		140	34	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Dichlorodifluoromethane	<37		140	37	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Ethylbenzene	<9.0		18	9.0	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Hexachlorobutadiene	<25		140	25	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Isopropyl ether	<11		140	11	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Methyl tert-butyl ether	<31		140	31	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Methylene Chloride	<49		360	49	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Naphthalene	<35		140	35	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
n-Butylbenzene	<9.2		72	9.2	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
N-Propylbenzene	<13		140	13	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
sec-Butylbenzene	<11		72	11	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Styrene	<7.1		72	7.1	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
tert-Butylbenzene	<9.7		72	9.7	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Tetrachloroethene	<12		72	12	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Toluene	<8.2		18	8.2	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
trans-1,2-Dichloroethene	<18		72	18	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
trans-1,3-Dichloropropene	<15	*	72	15	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Trichloroethene	<13		36	13	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Trichlorofluoromethane	<30		140	30	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Vinyl chloride	<7.4		18	7.4	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50
Xylenes, Total	<4.9		36	4.9	ug/Kg	☼	08/11/15 11:25	08/18/15 18:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125	08/11/15 11:25	08/18/15 18:33	50
4-Bromofluorobenzene (Surr)	90		75 - 120	08/11/15 11:25	08/18/15 18:33	50
Dibromofluoromethane	112		75 - 120	08/11/15 11:25	08/18/15 18:33	50

Client Sample ID: B-2 10-12
Date Collected: 08/11/15 11:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-4
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		75 - 120	08/11/15 11:25	08/18/15 18:33	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.2		38	9.2	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
2-Methylnaphthalene	<7.0		38	7.0	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Acenaphthene	<6.8		38	6.8	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Anthracene	<6.3		38	6.3	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Benzo[a]anthracene	<5.1		38	5.1	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Benzo[a]pyrene	<7.3		38	7.3	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Benzo[b]fluoranthene	<8.2		38	8.2	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Chrysene	<10		38	10	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Dibenz(a,h)anthracene	<7.3		38	7.3	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Fluoranthene	37	J	38	7.0	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Fluorene	<5.3		38	5.3	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Indeno[1,2,3-cd]pyrene	<9.8		38	9.8	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Naphthalene	<5.8		38	5.8	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Phenanthrene	<5.3		38	5.3	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1
Pyrene	25	J	38	7.5	ug/Kg	☼	08/16/15 19:20	08/18/15 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	08/16/15 19:20	08/18/15 12:14	1
Nitrobenzene-d5 (Surr)	76		25 - 115	08/16/15 19:20	08/18/15 12:14	1
Terphenyl-d14 (Surr)	154	X	36 - 134	08/16/15 19:20	08/18/15 12:14	1

Client Sample ID: B-3 12-14
Date Collected: 08/11/15 15:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-5
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<18		100	18	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,1,1-Trichloroethane	<10		52	10	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,1,2,2-Tetrachloroethane	<12		52	12	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,1,2-Trichloroethane	<14		52	14	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,1-Dichloroethane	<9.6		52	9.6	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,1-Dichloroethene	<16		52	16	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,1-Dichloropropene	<18		52	18	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2,3-Trichloropropane	<30		100	30	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2,4-Trichlorobenzene	<20		100	20	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2-Dibromo-3-Chloropropane	<45		100	45	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2-Dibromoethane	<16		100	16	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2-Dichlorobenzene	<11		100	11	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2-Dichloroethane	<15		52	15	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,2-Dichloropropane	<10		52	10	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50

Client Sample ID: B-3 12-14
Date Collected: 08/11/15 15:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-5
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<11		100	11	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,3-Dichloropropane	<7.0		52	7.0	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
1,4-Dichlorobenzene	<9.0		100	9.0	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
2,2-Dichloropropane	<16		52	16	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
2-Chlorotoluene	<11		52	11	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
4-Chlorotoluene	<10		52	10	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Benzene	<3.9		13	3.9	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Bromobenzene	<22		100	22	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Bromochloromethane	<20		100	20	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Bromodichloromethane	<18		100	18	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Bromoform	<23		100	23	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Bromomethane	<35		100	35	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Carbon tetrachloride	<13		52	13	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Chlorobenzene	<7.4		52	7.4	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Chloroethane	<23		100	23	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Chloroform	<11		52	11	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Chloromethane	<24		100	24	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
cis-1,2-Dichloroethene	<6.4		52	6.4	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
cis-1,3-Dichloropropene	<9.3		52	9.3	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Dibromochloromethane	<18		100	18	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Dibromomethane	<25		100	25	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Dichlorodifluoromethane	<27		100	27	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Ethylbenzene	<6.5		13	6.5	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Hexachlorobutadiene	<18		100	18	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Isopropyl ether	<7.6		100	7.6	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Isopropylbenzene	<13		100	13	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Methyl tert-butyl ether	<22		100	22	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Methylene Chloride	<35		260	35	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Naphthalene	<26		100	26	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
n-Butylbenzene	<6.7		52	6.7	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
N-Propylbenzene	<9.1		100	9.1	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
p-Isopropyltoluene	<9.6		100	9.6	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
sec-Butylbenzene	<8.0		52	8.0	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Styrene	<5.1		52	5.1	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
tert-Butylbenzene	<7.1		52	7.1	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Tetrachloroethene	<8.7		52	8.7	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Toluene	<6.0		13	6.0	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
trans-1,2-Dichloroethene	<13		52	13	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
trans-1,3-Dichloropropene	<11	*	52	11	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Trichloroethene	<9.7		26	9.7	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Trichlorofluoromethane	<22		100	22	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Vinyl chloride	<5.4		13	5.4	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50
Xylenes, Total	<3.6		26	3.6	ug/Kg	☼	08/11/15 15:40	08/18/15 19:01	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125	08/11/15 15:40	08/18/15 19:01	50
4-Bromofluorobenzene (Surr)	89		75 - 120	08/11/15 15:40	08/18/15 19:01	50
Dibromofluoromethane	112		75 - 120	08/11/15 15:40	08/18/15 19:01	50
Toluene-d8 (Surr)	107		75 - 120	08/11/15 15:40	08/18/15 19:01	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
2-Methylnaphthalene	<6.1		33	6.1	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Acenaphthene	<6.0		33	6.0	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Acenaphthylene	<4.4		33	4.4	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Anthracene	<5.6		33	5.6	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Chrysene	<9.1		33	9.1	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Fluoranthene	<6.2		33	6.2	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Fluorene	<4.7		33	4.7	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Naphthalene	<5.1		33	5.1	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Phenanthrene	<4.6		33	4.6	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1
Pyrene	<6.6		33	6.6	ug/Kg	☼	08/16/15 19:20	08/18/15 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*25 - 119*	*08/16/15 19:20*	*08/18/15 04:43*	*1*
Nitrobenzene-d5 (Surr)	*101*		*25 - 115*	*08/16/15 19:20*	*08/18/15 04:43*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*08/16/15 19:20*	*08/18/15 04:43*	*1*

Client Sample ID: B-4 8-10
Date Collected: 08/11/15 16:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-6
Matrix: Solid
Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		130	23	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,1,1-Trichloroethane	<13		66	13	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,1,2,2-Tetrachloroethane	<15		66	15	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,1,2-Trichloroethane	<18		66	18	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,1-Dichloroethane	<12		66	12	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,1-Dichloroethene	<20		66	20	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,1-Dichloropropene	<23		66	23	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2,3-Trichloropropane	<38		130	38	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2,4-Trichlorobenzene	<25		130	25	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2-Dibromo-3-Chloropropane	<58		130	58	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2-Dibromoethane	<21		130	21	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2-Dichlorobenzene	<14		130	14	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2-Dichloroethane	<19		66	19	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,2-Dichloropropane	<13		66	13	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,3,5-Trimethylbenzene	<14		130	14	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,3-Dichloropropane	<8.8		66	8.8	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
2,2-Dichloropropane	<21		66	21	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
2-Chlorotoluene	<14		66	14	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
4-Chlorotoluene	<13		66	13	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Benzene	<4.9		17	4.9	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-4 8-10
Date Collected: 08/11/15 16:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-6
Matrix: Solid
Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<28		130	28	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Bromochloromethane	<25		130	25	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Bromoform	<29		130	29	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Bromomethane	<45		130	45	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Carbon tetrachloride	<17		66	17	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Chlorobenzene	<9.4		66	9.4	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Chloroethane	<29		130	29	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Chloroform	<14		66	14	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Chloromethane	<31		130	31	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
cis-1,2-Dichloroethene	<8.1		66	8.1	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
cis-1,3-Dichloropropene	<12		66	12	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Dibromochloromethane	<23		130	23	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Dibromomethane	<32		130	32	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Dichlorodifluoromethane	<34		130	34	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Ethylbenzene	<8.3		17	8.3	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Hexachlorobutadiene	<23		130	23	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Isopropyl ether	<9.7		130	9.7	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Isopropylbenzene	<17		130	17	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Methylene Chloride	<45		330	45	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Naphthalene	<33		130	33	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
n-Butylbenzene	<8.5		66	8.5	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
N-Propylbenzene	<12		130	12	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
sec-Butylbenzene	<10		66	10	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Styrene	<6.5		66	6.5	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
tert-Butylbenzene	<9.0		66	9.0	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Tetrachloroethene	<11		66	11	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Toluene	<7.6		17	7.6	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
trans-1,2-Dichloroethene	<17		66	17	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
trans-1,3-Dichloropropene	<14	*	66	14	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Trichloroethene	<12		33	12	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Vinyl chloride	<5.9		17	5.9	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50
Xylenes, Total	<4.5		33	4.5	ug/Kg	☼	08/11/15 16:15	08/18/15 19:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 125*	*08/11/15 16:15*	*08/18/15 19:29*	*50*
4-Bromofluorobenzene (Surr)	*89*		*75 - 120*	*08/11/15 16:15*	*08/18/15 19:29*	*50*
Dibromofluoromethane	*113*		*75 - 120*	*08/11/15 16:15*	*08/18/15 19:29*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/11/15 16:15*	*08/18/15 19:29*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<3.9		36	6.9	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
2-Methylnaphthalene	<5.7		36	6.7	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Acenaphthene	<5.6		36	6.6	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Anthracene	<5.1		36	6.1	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1

Client Sample ID: B-4 8-10
Date Collected: 08/11/15 16:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-6
Matrix: Solid
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Benzo[a]pyrene	<7.1		36	7.1	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Benzo[b]fluoranthene	<7.9		36	7.9	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Chrysene	<10		36	10	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Dibenz[a,h]anthracene	<7.1		36	7.1	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Fluoranthene	<6.8		36	6.8	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Indeno[1,2,3-cd]pyrene	<9.5		36	9.5	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Phenanthrene	<5.1		36	5.1	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1
Pyrene	<7.3		36	7.3	ug/Kg	☼	08/16/15 19:20	08/18/15 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*25 - 119*	*08/16/15 19:20*	*08/18/15 05:09*	*1*
Nitrobenzene-d5 (Surr)	*86*		*25 - 115*	*08/16/15 19:20*	*08/18/15 05:09*	*1*
Terphenyl-d14 (Surr)	*102*		*36 - 134*	*08/16/15 19:20*	*08/18/15 05:09*	*1*

Client Sample ID: B-5 10-12
Date Collected: 08/12/15 07:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-7
Matrix: Solid
Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,1,1-Trichloroethane	<11		55	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,1,2,2-Tetrachloroethane	<13		55	13	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,1,2-Trichloroethane	<15		55	15	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,1-Dichloroethane	<10		55	10	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,1-Dichloroethene	<17		55	17	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,1-Dichloropropene	<19		55	19	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2-Dichloroethane	<16		55	16	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,2-Dichloropropane	<11		55	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,3-Dichloropropane	<7.3		55	7.3	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
1,4-Dichlorobenzene	<9.5		110	9.5	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
2,2-Dichloropropane	<17		55	17	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
2-Chlorotoluene	<11		55	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
4-Chlorotoluene	<11		55	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Benzene	<4.1		14	4.1	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Bromobenzene	<23		110	23	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-5 10-12
Date Collected: 08/12/15 07:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-7
Matrix: Solid
Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<21		110	21	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Bromoform	<24		110	24	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Bromomethane	<37		110	37	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Carbon tetrachloride	<14		55	14	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Chlorobenzene	<7.8		55	7.8	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Chloroethane	<24		110	24	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Chloroform	<11		55	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Chloromethane	<25		110	25	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
cis-1,2-Dichloroethene	<6.7		55	6.7	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
cis-1,3-Dichloropropene	<9.7		55	9.7	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Dibromomethane	<26		110	26	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Ethylbenzene	<6.9		14	6.9	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Isopropyl ether	<8.0		110	8.0	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Methylene Chloride	<37		270	37	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Naphthalene	<27		110	27	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
n-Butylbenzene	<7.0		55	7.0	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
N-Propylbenzene	<9.6		110	9.6	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
sec-Butylbenzene	<8.4		55	8.4	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Styrene	<5.4		55	5.4	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
tert-Butylbenzene	<7.4		55	7.4	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Tetrachloroethene	<9.1		55	9.1	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Toluene	<6.3		14	6.3	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
trans-1,2-Dichloroethene	<14		55	14	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
trans-1,3-Dichloropropene	<11	*	55	11	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Trichloroethene	<10		27	10	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Vinyl chloride	<5.7		14	5.7	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50
Xylenes, Total	<3.7		27	3.7	ug/Kg	☼	08/12/15 07:50	08/18/15 19:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 125*	*08/12/15 07:50*	*08/18/15 19:57*	*50*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*	*08/12/15 07:50*	*08/18/15 19:57*	*50*
Dibromofluoromethane	*114*		*75 - 120*	*08/12/15 07:50*	*08/18/15 19:57*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/12/15 07:50*	*08/18/15 19:57*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<42		170	42	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
2-Methylnaphthalene	<31		170	31	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Acenaphthene	<31		170	31	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Acenaphthylene	<23		170	23	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Anthracene	320		170	29	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Benzo[a]anthracene	620		170	23	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5

Client Sample ID: B-5 10-12
Date Collected: 08/12/15 07:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-7
Matrix: Solid
Percent Solids: 95.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	470		170	33	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Benzo[b]fluoranthene	800		170	37	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Benzo[g,h,i]perylene	220		170	55	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Benzo[k]fluoranthene	250		170	50	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Chrysene	630		170	47	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Dibenz(a,h)anthracene	<33		170	33	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Fluoranthene	1200		170	32	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Fluorene	<24		170	24	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Indeno[1,2,3-cd]pyrene	380		170	44	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Naphthalene	<26		170	26	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Phenanthrene	660		170	24	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5
Pyrene	1200		170	34	ug/Kg	☼	08/16/15 19:20	08/18/15 09:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119	08/16/15 19:20	08/18/15 09:47	5
Nitrobenzene-d5 (Surr)	69		25 - 115	08/16/15 19:20	08/18/15 09:47	5
Terphenyl-d14 (Surr)	140	X	36 - 134	08/16/15 19:20	08/18/15 09:47	5

Client Sample ID: B-6 12-14
Date Collected: 08/12/15 09:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-8
Matrix: Solid
Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,1,1-Trichloroethane	<11		55	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,1,2,2-Tetrachloroethane	<13		55	13	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,1,2-Trichloroethane	<15		55	15	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,1-Dichloroethane	<10		55	10	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,1-Dichloroethene	<17		55	17	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,1-Dichloropropene	<19		55	19	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2-Dichloroethane	<16		55	16	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,2-Dichloropropane	<11		55	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,3-Dichloropropane	<7.3		55	7.3	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
1,4-Dichlorobenzene	<9.5		110	9.5	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
2,2-Dichloropropane	<17		55	17	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
2-Chlorotoluene	<11		55	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
4-Chlorotoluene	<11		55	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Benzene	<4.0		14	4.0	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Bromobenzene	<23		110	23	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Bromochloromethane	<21		110	21	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-6 12-14
Date Collected: 08/12/15 09:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-8
Matrix: Solid
Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<18		110	18	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Bromoform	<24		110	24	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Bromomethane	<37		110	37	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Carbon tetrachloride	<14		55	14	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Chlorobenzene	<7.8		55	7.8	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Chloroethane	<24		110	24	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Chloroform	<11		55	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Chloromethane	<25		110	25	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
cis-1,2-Dichloroethene	<6.7		55	6.7	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
cis-1,3-Dichloropropene	<9.7		55	9.7	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Dibromomethane	<26		110	26	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Ethylbenzene	<6.9		14	6.9	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Isopropyl ether	<8.0		110	8.0	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Methylene Chloride	<37		270	37	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Naphthalene	<27		110	27	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
n-Butylbenzene	<7.0		55	7.0	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
N-Propylbenzene	<9.5		110	9.5	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
sec-Butylbenzene	<8.4		55	8.4	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Styrene	<5.4		55	5.4	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
tert-Butylbenzene	<7.4		55	7.4	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Tetrachloroethene	<9.1		55	9.1	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Toluene	<5.3		14	6.3	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
trans-1,2-Dichloroethene	<14		55	14	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
trans-1,3-Dichloropropene	<11		55	11	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Trichloroethene	<10		27	10	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Vinyl chloride	<5.7		14	5.7	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50
Xylenes, Total	<3.7		27	3.7	ug/Kg	☼	08/12/15 09:30	08/18/15 20:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125	08/12/15 09:30	08/18/15 20:25	50
4-Bromofluorobenzene (Surr)	88		75 - 120	08/12/15 09:30	08/18/15 20:25	50
Dibromofluoromethane	113		75 - 120	08/12/15 09:30	08/18/15 20:25	50
Toluene-d8 (Surr)	107		75 - 120	08/12/15 09:30	08/18/15 20:25	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.2		33	8.2	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1
2-Methylnaphthalene	<6.2		33	6.2	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1
Acenaphthene	<6.0		33	6.0	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1
Acenaphthylene	<4.4		33	4.4	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1
Anthracene	<5.6		33	5.6	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1
Benzo[a]pyrene	<6.5		33	6.5	ug/Kg	☼	08/16/15 19:20	08/18/15 05:01	1

Client Sample ID: B-6 12-14
Date Collected: 08/12/15 09:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-8
Matrix: Solid
Percent Solids: 95.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Benzo[k]fluoranthene	<9.9		33	9.9	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Chrysene	<9.1		33	9.1	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Dibenz(a,h)anthracene	<6.5		33	6.5	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Fluoranthene	<6.2		33	6.2	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Fluorene	<4.7		33	4.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Indeno[1,2,3-cd]pyrene	<8.7		33	8.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Naphthalene	<5.2		33	5.2	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Phenanthrene	<4.7		33	4.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1
Pyrene	<6.7		33	6.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	08/16/15 19:20	08/18/15 06:01	1
Nitrobenzene-d5 (Surr)	93		25 - 115	08/16/15 19:20	08/18/15 06:01	1
Terphenyl-d14 (Surr)	119		36 - 134	08/16/15 19:20	08/18/15 06:01	1

Client Sample ID: B-7 2-4
Date Collected: 08/11/15 13:05
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-9
Matrix: Solid
Percent Solids: 88.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1
PCB-1232	<7.9		18	7.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1
PCB-1260	<8.9		18	8.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		50 - 116	08/13/15 17:02	08/14/15 02:07	1
DCB Decachlorobiphenyl	95		48 - 142	08/13/15 17:02	08/14/15 02:07	1

Client Sample ID: B-7 8-10
Date Collected: 08/11/15 13:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-10
Matrix: Solid
Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,1,1-Trichloroethane	<11		54	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,1,2,2-Tetrachloroethane	<13		54	13	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,1,2-Trichloroethane	<15		54	15	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,1-Dichloroethane	<10		54	10	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,1-Dichloroethene	<17		54	17	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,1-Dichloropropene	<19		54	19	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-7 8-10
Date Collected: 08/11/15 13:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-10
Matrix: Solid
Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<20		110	20	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2,4-Trimethylbenzene	<11		110	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2-Dibromo-3-Chloropropane	<47		110	47	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2-Dichloroethane	<15		54	15	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,2-Dichloropropane	<11		54	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,3-Dichloropropane	<7.3		54	7.3	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
1,4-Dichlorobenzene	<9.4		110	9.4	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
2,2-Dichloropropane	<17		54	17	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
2-Chlorotoluene	<11		54	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
4-Chlorotoluene	<11		54	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Benzene	<4.0		14	4.0	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Bromobenzene	<23		110	23	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Bromochloromethane	<20		110	20	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Bromoform	<24		110	24	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Bromomethane	<37		110	37	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Carbon tetrachloride	<14		54	14	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Chlorobenzene	<7.7		54	7.7	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Chloroethane	<24		110	24	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Chloroform	<11		54	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Chloromethane	<25		110	25	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
cis-1,2-Dichloroethene	<5.7		54	6.7	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
cis-1,3-Dichloropropene	<9.6		54	9.6	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Dibromomethane	<26		110	26	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Ethylbenzene	<6.8		14	6.8	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Isopropyl ether	<8.0		110	8.0	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Methylene Chloride	<37		270	37	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Naphthalene	<27		110	27	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
n-Butylbenzene	<7.0		54	7.0	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
N-Propylbenzene	<9.5		110	9.5	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
sec-Butylbenzene	<8.3		54	8.3	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Styrene	<5.4		54	5.4	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
tert-Butylbenzene	<7.4		54	7.4	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Tetrachloroethene	<9.0		54	9.0	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Toluene	<5.2		14	6.2	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
trans-1,2-Dichloroethene	<14		54	14	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
trans-1,3-Dichloropropene	<11		54	11	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Trichloroethene	<10		27	10	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Trichlorofluoromethane	<22		110	22	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50

Client Sample ID: B-7 8-10
Date Collected: 08/11/15 13:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-10
Matrix: Solid
Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<5.6		14	5.6	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50
Xylenes, Total	<3.7		27	3.7	ug/Kg	☼	08/11/15 13:15	08/18/15 23:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75-125	08/11/15 13:15	08/18/15 23:28	50
4-Bromofluorobenzene (Surr)	101		75-120	08/11/15 13:15	08/18/15 23:28	50
Dibromofluoromethane	88		75-120	08/11/15 13:15	08/18/15 23:28	50
Toluene-d8 (Surr)	94		75-120	08/11/15 13:15	08/18/15 23:28	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.5		34	8.5	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
2-Methylnaphthalene	<6.4		34	6.4	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Acenaphthylene	<4.6		34	4.6	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Anthracene	<5.8		34	5.8	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Benzo[a]anthracene	<4.7		34	4.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Benzo[a]pyrene	<6.7		34	6.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Benzo[b]fluoranthene	<7.5		34	7.5	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Chrysene	<9.5		34	9.5	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Dibenz(a,h)anthracene	<6.7		34	6.7	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Fluoranthene	<6.4		34	6.4	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Fluorene	<4.9		34	4.9	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Indeno[1,2,3-cd]pyrene	<9.0		34	9.0	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Phenanthrene	<4.8		34	4.8	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1
Pyrene	<6.9		34	6.9	ug/Kg	☼	08/16/15 19:20	08/18/15 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		25-119	08/16/15 19:20	08/18/15 06:27	1
Nitrobenzene-d5 (Surr)	105		25-115	08/16/15 19:20	08/18/15 06:27	1
Terphenyl-d14 (Surr)	138	X	36-134	08/16/15 19:20	08/18/15 06:27	1

Client Sample ID: B-8 0-2
Date Collected: 08/11/15 10:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-11
Matrix: Solid
Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		140	25	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,1,1-Trichloroethane	<14		71	14	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,1,2,2-Tetrachloroethane	<17		71	17	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,1,2-Trichloroethane	<20		71	20	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,1-Dichloroethane	<13		71	13	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,1-Dichloroethene	<22		71	22	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,1-Dichloropropene	<24		71	24	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2,3-Trichlorobenzene	<25		140	25	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2,3-Trichloropropane	<41		140	41	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-8 0-2
Date Collected: 08/11/15 10:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-11
Matrix: Solid
Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<27		140	27	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2-Dibromo-3-Chloropropane	<62		140	62	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2-Dichlorobenzene	<15		140	15	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2-Dichloroethane	<20		71	20	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,2-Dichloropropane	<14		71	14	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,3,5-Trimethylbenzene	<15		140	15	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,3-Dichloropropane	<9.5		71	9.5	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
2,2-Dichloropropane	<22		71	22	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
2-Chlorotoluene	<15		71	15	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
4-Chlorotoluene	<14		71	14	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Benzene	<5.3		18	5.3	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Bromobenzene	<30		140	30	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Bromochloromethane	<27		140	27	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Bromoform	<31		140	31	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Bromomethane	<48		140	48	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Carbon tetrachloride	<18		71	18	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Chlorobenzene	<10		71	10	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Chloroethane	<31		140	31	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Chloroform	<15		71	15	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Chloromethane	<33		140	33	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
cis-1,2-Dichloroethene	<8.7		71	8.7	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
cis-1,3-Dichloropropene	<13		71	13	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Dibromochloromethane	<25		140	25	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Dibromomethane	<34		140	34	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Ethylbenzene	<9.0		18	9.0	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Hexachlorobutadiene	<25		140	25	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Isopropyl ether	<10		140	10	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Methyl tert-butyl ether	<31		140	31	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Methylene Chloride	*49		360	49	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Naphthalene	<35		140	35	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
n-Butylbenzene	<9.2		71	9.2	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
sec-Butylbenzene	<11		71	11	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Styrene	<7.0		71	7.0	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
tert-Butylbenzene	<9.7		71	9.7	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Tetrachloroethene	<12		71	12	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Toluene	29		18	8.2	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
trans-1,2-Dichloroethene	<18		71	18	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
trans-1,3-Dichloropropene	<15	*	71	15	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Trichloroethene	<13		36	13	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50

Client Sample ID: B-8 0-2
Date Collected: 08/11/15 10:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-11
Matrix: Solid
Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<7.4		18	7.4	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50
Xylenes, Total	<4.9		36	4.9	ug/Kg	☼	08/11/15 10:00	08/18/15 17:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125	08/11/15 10:00	08/18/15 17:41	50
4-Bromofluorobenzene (Surr)	104		75 - 120	08/11/15 10:00	08/18/15 17:41	50
Dibromofluoromethane	88		75 - 120	08/11/15 10:00	08/18/15 17:41	50
Toluene-d8 (Surr)	96		75 - 120	08/11/15 10:00	08/18/15 17:41	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<44		180	44	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
2-Methylnaphthalene	<33		180	33	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Acenaphthene	<33		180	33	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Acenaphthylene	<24		180	24	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Anthracene	300		180	30	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Benzo[a]anthracene	1500		180	24	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Benzo[a]pyrene	1400		180	35	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Benzo[b]fluoranthene	2000		180	39	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Benzo[g,h,i]perylene	320		180	59	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Benzo[k]fluoranthene	800		180	54	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Chrysene	1600		180	50	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Dibenz(a,h)anthracene	<35		180	35	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Fluoranthene	2600		180	34	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Fluorene	<26		180	26	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Indeno[1,2,3-cd]pyrene	<47		180	47	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Naphthalene	150	J	180	28	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Phenanthrene	840		180	25	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5
Pyrene	2800		180	38	ug/Kg	☼	08/16/15 19:34	08/18/15 10:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 115	08/16/15 19:34	08/18/15 10:16	5
Nitrobenzene-d5 (Surr)	41		25 - 115	08/16/15 19:34	08/18/15 10:16	5
Terphenyl-d14 (Surr)	127		36 - 134	08/16/15 19:34	08/18/15 10:16	5

Method: 8082 - Polychlorinated B phenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		18	6.5	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1
PCB-1260	<9.0		18	9.0	ug/Kg	☼	08/13/15 17:02	08/14/15 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	35	X	50 - 116	08/13/15 17:02	08/14/15 02:21	1
DCB Decachlorobiphenyl	63		48 - 142	08/13/15 17:02	08/14/15 02:21	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-8 0-2
Date Collected: 08/11/15 10:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-11
Matrix: Solid
Percent Solids: 88.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		1.0	0.48	mg/Kg	☼	08/13/15 19:02	08/14/15 17:52	1
Cadmium	0.93	B	0.21	0.060	mg/Kg	☼	08/13/15 19:02	08/14/15 17:52	1
Lead	200		0.52	0.26	mg/Kg	☼	08/13/15 19:02	08/14/15 17:52	1

Client Sample ID: B-9 2-4
Date Collected: 08/11/15 12:20
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-12
Matrix: Solid
Percent Solids: 79.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		20	6.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1
PCB-1221	<8.6		20	8.6	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1
PCB-1242	<5.5		20	6.5	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1
PCB-1248	<7.7		20	7.7	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1
PCB-1254	<4.2		20	4.2	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1
PCB-1260	<9.6		20	9.6	ug/Kg	☼	08/13/15 17:02	08/14/15 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		50 - 116	08/13/15 17:02	08/14/15 02:34	1
DCB Decachlorobiphenyl	107		48 - 142	08/13/15 17:02	08/14/15 02:34	1

Client Sample ID: B-9 8-10
Date Collected: 08/11/15 12:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-13
Matrix: Solid
Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,1,1-Trichloroethane	<12		59	12	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,1,2,2-Tetrachloroethane	<14		59	14	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,1,2-Trichloroethane	<16		59	16	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,1-Dichloroethane	<11		59	11	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,1-Dichloroethene	<18		59	18	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,1-Dichloropropene	<20		59	20	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2,3-Trichlorobenzene	<21		120	21	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2-Dibromo-3-Chloropropane	<51		120	51	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2-Dichloroethane	<17		59	17	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,2-Dichloropropane	<12		59	12	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,3-Dichloropropane	<7.9		59	7.9	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
2,2-Dichloropropane	<19		59	19	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50
2-Chlorotoluene	<12		59	12	ug/Kg	☼	08/11/15 12:40	08/18/15 13:06	50

Client Sample ID: B-9 8-10
Date Collected: 08/11/15 12:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-13
Matrix: Solid
Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<12		59	12	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Benzene	<4.4		15	4.4	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Bromoform	<26		120	26	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Bromomethane	<40		120	40	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Carbon tetrachloride	<15		59	15	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Chlorobenzene	<8.4		59	8.4	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Chloroethane	<26		120	26	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Chloroform	<12		59	12	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Chloromethane	<27		120	27	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
cis-1,2-Dichloroethene	<7.3		59	7.3	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
cis-1,3-Dichloropropene	<10		59	10	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Ethylbenzene	<7.4		15	7.4	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Isopropyl ether	<8.7		120	8.7	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Methylene Chloride	<40		290	40	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Naphthalene	<29		120	29	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
n-Butylbenzene	<7.6		59	7.6	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
sec-Butylbenzene	<9.1		59	9.1	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Styrene	<5.8		59	5.8	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
tert-Butylbenzene	<8.0		59	8.0	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Tetrachloroethene	<9.8		59	9.8	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Toluene	<6.8		15	6.8	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
trans-1,2-Dichloroethene	<15		59	15	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
trans-1,3-Dichloropropene	<12	*	59	12	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Trichloroethene	<11		29	11	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Vinyl chloride	<6.1		15	6.1	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50
Xylenes, Total	<4.0		29	4.0	ug/Kg	☼	08/11/15 12:40	08/18/15 18:06	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125	08/11/15 12:40	08/18/15 18:06	50
4-Bromofluorobenzene (Surr)	106		75 - 120	08/11/15 12:40	08/18/15 18:06	50
Dibromofluoromethane	90		75 - 120	08/11/15 12:40	08/18/15 18:06	50
Toluene-d8 (Surr)	94		75 - 120	08/11/15 12:40	08/18/15 18:06	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.5		34	8.5	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
2-Methylnaphthalene	<6.4		34	6.4	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-9 8-10
Date Collected: 08/11/15 12:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-13
Matrix: Solid
Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<4.6		34	4.6	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Anthracene	22	J	34	5.8	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Benzo[a]anthracene	7.4	J	34	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Benzo[a]pyrene	<5.7		34	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Benzo[b]fluoranthene	<7.5		34	7.5	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Benzo[g,h,i]perylene	<11	F1	34	11	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Chrysene	<9.4		34	9.4	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Dibenz(a,h)anthracene	<5.7		34	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Fluoranthene	23	J	34	6.4	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Fluorene	<4.9		34	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Indeno[1,2,3-cd]pyrene	<9.0	F1	34	9.0	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Phenanthrene	27	J	34	4.8	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1
Pyrene	8.1	J F1	34	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	08/16/15 19:34	08/17/15 14:06	1
Nitrobenzene-d5 (Surr)	82		25 - 115	08/16/15 19:34	08/17/15 14:06	1
Terphenyl-d14 (Surr)	106		36 - 134	08/16/15 19:34	08/17/15 14:06	1

Client Sample ID: B-10 0-2
Date Collected: 08/12/15 11:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-14
Matrix: Solid
Percent Solids: 90.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.4		18	6.4	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1
PCB-1248	<7.1		18	7.1	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1
PCB-1260	<8.8		18	8.8	ug/Kg	☼	08/13/15 17:02	08/14/15 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		50 - 116	08/13/15 17:02	08/14/15 02:48	1
DCB Decachlorobiphenyl	91		48 - 142	08/13/15 17:02	08/14/15 02:48	1

Client Sample ID: B-10 0-4
Date Collected: 08/12/15 12:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-15
Matrix: Solid
Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,1,1-Trichloroethane	<12		59	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,1,2,2-Tetrachloroethane	<14		59	14	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,1,2-Trichloroethane	<17		59	17	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,1-Dichloroethane	<11		59	11	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-10 0-4
Date Collected: 08/12/15 12:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-15
Matrix: Solid
Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<18		59	18	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,1-Dichloropropene	<20		59	20	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2,3-Trichlorobenzene	<21		120	21	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2-Dibromo-3-Chloropropane	<52		120	52	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2-Dichloroethane	<17		59	17	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,2-Dichloropropane	<12		59	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,3-Dichloropropane	<8.0		59	8.0	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
2,2-Dichloropropane	<19		59	19	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
2-Chlorotoluene	<12		59	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
4-Chlorotoluene	<12		59	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Benzene	<4.4		15	4.4	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Bromoform	<26		120	26	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Bromomethane	<40		120	40	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Carbon tetrachloride	<15		59	15	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Chlorobenzene	<8.5		59	8.5	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Chloroethane	<25		120	26	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Chloroform	<12		59	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Chloromethane	<27		120	27	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
cis-1,2-Dichloroethene	<7.3		59	7.3	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
cis-1,3-Dichloropropene	<11		59	11	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Ethylbenzene	<7.5		15	7.5	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Isopropyl ether	<8.7		120	8.7	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Methyl tert-butyl ether	<26		120	26	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Methylene Chloride	<41		300	41	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Naphthalene	<29		120	29	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
n-Butylbenzene	<7.7		59	7.7	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
sec-Butylbenzene	<9.1		59	9.1	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Styrene	<5.9		59	5.9	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
tert-Butylbenzene	<8.1		59	8.1	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Tetrachloroethene	<9.9		59	9.9	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Toluene	<6.8		15	6.8	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-10 0-4
Date Collected: 08/12/15 12:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-15
Matrix: Solid
Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<15		59	15	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
trans-1,3-Dichloropropene	<12	*	59	12	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Trichloroethene	<11		30	11	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Vinyl chloride	<6.2		15	6.2	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50
Xylenes, Total	<4.1		30	4.1	ug/Kg	☼	08/11/15 12:00	08/18/15 18:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 125*	*08/11/15 12:00*	*08/18/15 18:32*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*08/11/15 12:00*	*08/18/15 18:32*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*08/11/15 12:00*	*08/18/15 18:32*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*08/11/15 12:00*	*08/18/15 18:32*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**11**	**J**	35	8.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
2-Methylnaphthalene	**10**	**J**	35	6.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Acenaphthene	<5.4		35	6.4	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Anthracene	<5.9		35	5.9	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Benzo[a]anthracene	**24**	**J**	35	4.8	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Benzo[a]pyrene	**28**	**J**	35	6.8	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Benzo[b]fluoranthene	**46**		35	7.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Benzo[g,h,i]perylene	**15**	**J**	35	11	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Benzo[k]fluoranthene	**19**	**J**	35	10	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Chrysene	**38**		35	9.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Dibenz(a,h)anthracene	<5.8		35	6.8	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Fluoranthene	**36**		35	6.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Indeno[1,2,3-cd]pyrene	**9.5**	**J**	35	9.2	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Naphthalene	**5.5**	**J**	35	5.4	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Phenanthrene	**27**	**J**	35	4.9	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1
Pyrene	**53**		35	7.0	ug/Kg	☼	08/16/15 19:34	08/18/15 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*25 - 119*	*08/16/15 19:34*	*08/18/15 03:11*	*1*
Nitrobenzene-d5 (Surr)	*99*		*25 - 115*	*08/16/15 19:34*	*08/18/15 03:11*	*1*
Terphenyl-d14 (Surr)	*155*	*X*	*35 - 134*	*08/16/15 19:34*	*08/18/15 03:11*	*1*

Client Sample ID: B-11 0-2
Date Collected: 08/11/15 13:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-16
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	08/11/15 13:30	08/18/15 13:57	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	08/11/15 13:30	08/18/15 13:57	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	08/11/15 13:30	08/18/15 13:57	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	08/11/15 13:30	08/18/15 13:57	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	08/11/15 13:30	08/18/15 13:57	50

Client Sample ID: B-11 0-2
Date Collected: 08/11/15 13:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-16
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2-Dichloroethane	<17		58	17	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Benzene	<4.3		14	4.3	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Bromoform	<26		120	26	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Bromomethane	<40		120	40	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Chloroethane	<25		120	25	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Chloroform	<12		58	12	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Chloromethane	<27		120	27	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Methylene Chloride	<40		290	40	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Naphthalene	<29		120	29	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Styrene	<5.7		58	5.7	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Tetrachloroethene	<9.7		58	9.7	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Toluene	<6.7		14	6.7	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-11 0-2
Date Collected: 08/11/15 13:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-16
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
trans-1,3-Dichloropropene	<12	*	58	12	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Trichloroethene	<11		29	11	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50
Xylenes, Total	**18**	**J**	29	4.0	ug/Kg	☼	08/11/15 13:30	08/18/15 18:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 125*	*08/11/15 13:30*	*08/18/15 18:57*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*08/11/15 13:30*	*08/18/15 18:57*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*08/11/15 13:30*	*08/18/15 18:57*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*08/11/15 13:30*	*08/18/15 18:57*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<43		180	43	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
2-Methylnaphthalene	<33		180	33	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Acenaphthene	<32		180	32	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Acenaphthylene	**49**	**J**	180	23	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Anthracene	**170**	**J**	180	30	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Benzo[a]anthracene	**550**		180	24	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Benzo[a]pyrene	**690**		180	34	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Benzo[b]fluoranthene	**1100**		180	38	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Benzo[g,h,i]perylene	**240**		180	57	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Benzo[k]fluoranthene	**520**		180	52	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Chrysene	**630**		180	48	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Dibenz(a,h)anthracene	<34		180	34	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Fluoranthene	**1000**		180	33	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Fluorene	**39**	**J**	180	25	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Indeno[1,2,3-cd]pyrene	**250**		180	46	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Naphthalene	**27**	**J**	180	27	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Phenanthrene	**630**		180	25	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5
Pyrene	**1500**		180	35	ug/Kg	☼	08/16/15 19:34	08/18/15 08:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*25 - 119*	*08/16/15 19:34*	*08/18/15 08:37*	*5*
Nitrobenzene-d5 (Surr)	*91*		*25 - 115*	*08/16/15 19:34*	*08/18/15 08:37*	*5*
Terphenyl-d14 (Surr)	*185*	*X*	*36 - 134*	*08/16/15 19:34*	*08/18/15 08:37*	*5*

Client Sample ID: B-12 8-10
Date Collected: 08/11/15 14:20
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-17
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,1,1-Trichloroethane	<14		69	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,1,2,2-Tetrachloroethane	<16		69	16	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,1,2-Trichloroethane	<19		69	19	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,1-Dichloroethane	<13		69	13	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50

Client Sample ID: B-12 8-10
Date Collected: 08/11/15 14:20
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-17
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<21		69	21	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,1-Dichloropropene	<24		69	24	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2,3-Trichloropropane	<39		140	39	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2-Dibromo-3-Chloropropane	<60		140	60	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2-Dichloroethane	<20		69	20	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,2-Dichloropropane	<13		69	13	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,3-Dichloropropane	<9.2		69	9.2	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
2,2-Dichloropropane	<22		69	22	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
2-Chlorotoluene	<14		69	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
4-Chlorotoluene	<14		69	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Benzene	<5.1		17	5.1	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Bromobenzene	<29		140	29	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Bromochloromethane	<26		140	26	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Bromodichloromethane	<23		140	23	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Bromoform	<30		140	30	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Bromomethane	<47		140	47	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Carbon tetrachloride	<18		69	18	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Chlorobenzene	<9.8		69	9.8	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Chloroethane	<30		140	30	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Chloroform	<14		69	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Chloromethane	<32		140	32	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
cis-1,2-Dichloroethene	<8.5		69	8.5	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
cis-1,3-Dichloropropene	<12		69	12	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Dibromomethane	<33		140	33	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Dichlorodifluoromethane	<35		140	35	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Ethylbenzene	<8.7		17	8.7	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Isopropyl ether	<10		140	10	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Isopropylbenzene	<17		140	17	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Methylene Chloride	<47		340	47	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Naphthalene	<34		140	34	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
n-Butylbenzene	<8.9		69	8.9	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
sec-Butylbenzene	<11		69	11	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Styrene	<6.8		69	6.8	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
tert-Butylbenzene	<9.4		69	9.4	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Tetrachloroethene	<11		69	11	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Toluene	<7.9		17	7.9	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-12 8-10
Date Collected: 08/11/15 14:20
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-17
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<17		69	17	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
trans-1,3-Dichloropropene	<14	*	69	14	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Trichloroethene	<13		34	13	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Vinyl chloride	<7.2		17	7.2	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50
Xylenes, Total	<4.7		34	4.7	ug/Kg	☼	08/11/15 14:20	08/18/15 19:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 125*	*08/11/15 14:20*	*08/18/15 19:22*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*08/11/15 14:20*	*08/18/15 19:22*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*08/11/15 14:20*	*08/18/15 19:22*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*08/11/15 14:20*	*08/18/15 19:22*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.2		37	9.2	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
2-Methylnaphthalene	<6.9		37	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Acenaphthene	<6.8		37	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Acenaphthylene	<5.0		37	5.0	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Anthracene	<6.3		37	6.3	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Benzo[a]anthracene	<5.1		37	5.1	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Benzo[a]pyrene	<7.3		37	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Benzo[b]fluoranthene	<8.1		37	8.1	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Chrysene	<10		37	10	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Dibenz(a,h)anthracene	<7.3		37	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Fluoranthene	<7.0		37	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Indeno[1,2,3-cd]pyrene	<9.7		37	9.7	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Phenanthrene	<5.2		37	5.2	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1
Pyrene	<7.5		37	7.5	ug/Kg	☼	08/16/15 19:34	08/17/15 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*25 - 119*	*08/16/15 19:34*	*08/17/15 14:36*	*1*
Nitrobenzene-d5 (Surr)	*81*		*25 - 115*	*08/16/15 19:34*	*08/17/15 14:36*	*1*
Terphenyl-d14 (Surr)	*99*		*36 - 134*	*08/16/15 19:34*	*08/17/15 14:36*	*1*

Client Sample ID: B-13 2-4
Date Collected: 08/11/15 16:35
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-18
Matrix: Solid
Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	08/11/15 16:35	08/18/15 13:47	50
1,1,1-Trichloroethane	<17		84	17	ug/Kg	☼	08/11/15 16:35	08/18/15 13:47	50
1,1,2,2-Tetrachloroethane	<20		84	20	ug/Kg	☼	08/11/15 16:35	08/18/15 13:47	50
1,1,2-Trichloroethane	<23		84	23	ug/Kg	☼	08/11/15 16:35	08/18/15 13:47	50
1,1-Dichloroethane	<15		84	15	ug/Kg	☼	08/11/15 16:35	08/18/15 13:47	50

Client Sample ID: B-13 2-4
Date Collected: 08/11/15 16:35
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-18
Matrix: Solid
Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<25		84	26	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,1-Dichloropropene	<29		84	29	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2,3-Trichloropropane	<48		170	48	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2,4-Trichlorobenzene	<32		170	32	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2,4-Trimethylbenzene	230		170	18	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2-Dibromo-3-Chloropropane	<73		170	73	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2-Dichloroethane	<24		84	24	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,2-Dichloropropane	<16		84	16	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,3,5-Trimethylbenzene	70	J	170	17	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,3-Dichloropropane	<11		84	11	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
2,2-Dichloropropane	<26		84	26	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
2-Chlorotoluene	<17		84	17	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
4-Chlorotoluene	<17		84	17	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Benzene	<6.2		21	6.2	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Bromobenzene	<36		170	36	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Bromochloromethane	<32		170	32	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Bromodichloromethane	<28		170	28	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Bromoform	<37		170	37	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Bromomethane	<57		170	57	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Carbon tetrachloride	67	J	84	22	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Chlorobenzene	<12		84	12	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Chloroethane	<36		170	36	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Chloroform	<17		84	17	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Chloromethane	<39		170	39	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
cis-1,2-Dichloroethene	<10		84	10	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
cis-1,3-Dichloropropene	<15		84	15	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Dibromomethane	<40		170	40	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Dichlorodifluoromethane	<43		170	43	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Ethylbenzene	71		21	11	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Isopropyl ether	<12		170	12	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Methylene Chloride	<57		420	57	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Naphthalene	260		170	41	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
n-Butylbenzene	46	J	84	11	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
N-Propylbenzene	66	J	170	15	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
p-Isopropyltoluene	<15		170	15	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
sec-Butylbenzene	<13		84	13	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Styrene	<8.3		84	8.3	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
tert-Butylbenzene	<11		84	11	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Tetrachloroethene	<14		84	14	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Toluene	67		21	9.6	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-13 2-4
Date Collected: 08/11/15 16:35
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-18
Matrix: Solid
Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<21		84	21	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
trans-1,3-Dichloropropene	<17	*	84	17	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Trichloroethene	<16		42	16	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Trichlorofluoromethane	<35		170	35	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Vinyl chloride	<8.7		21	8.7	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50
Xylenes, Total	230		42	5.7	ug/Kg	☼	08/11/15 16:35	08/18/15 19:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	112		75 - 125	08/11/15 16:35	08/18/15 19:47	50
4-Bromofluorobenzene (Surr)	104		75 - 120	08/11/15 16:35	08/18/15 19:47	50
Dibromofluoromethane	90		75 - 120	08/11/15 16:35	08/18/15 19:47	50
Toluene-d8 (Surr)	97		75 - 120	08/11/15 16:35	08/18/15 19:47	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	500		37	9.1	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
2-Methylnaphthalene	590		37	6.8	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Acenaphthene	<5.7		37	6.7	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Anthracene	47		37	6.2	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Benzo[a]anthracene	92		37	5.0	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Benzo[a]pyrene	<7.2		37	7.2	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Benzo[b]fluoranthene	<8.0		37	8.0	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Chrysene	160		37	10	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Dibenz[a,h]anthracene	<7.2		37	7.2	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Fluoranthene	150		37	6.9	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Indeno[1,2,3-cd]pyrene	<3.6		37	9.6	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Naphthalene	370		37	5.7	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Phenanthrene	390		37	5.2	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1
Pyrene	190		37	7.4	ug/Kg	☼	08/16/15 19:34	08/18/15 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	82		25 - 119	08/16/15 19:34	08/18/15 10:45	1
Nitrobenzene-d5 (Surr)	73		25 - 115	08/16/15 19:34	08/18/15 10:45	1
Terphenyl-d14 (Surr)	137	X	36 - 134	08/16/15 19:34	08/18/15 10:45	1

Client Sample ID: B-14 8-10
Date Collected: 08/11/15 14:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-19
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		160	27	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,1,1-Trichloroethane	<16		79	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,1,2,2-Tetrachloroethane	<19		79	19	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,1,2-Trichloroethane	<22		79	22	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,1-Dichloroethane	<15		79	15	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50

Client Sample ID: B-14 8-10
Date Collected: 08/11/15 14:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-19
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<24		79	24	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,1-Dichloropropene	<27		79	27	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2,3-Trichlorobenzene	<28		160	28	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2,3-Trichloropropane	<45		160	45	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2,4-Trichlorobenzene	<30		160	30	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2,4-Trimethylbenzene	43	J	160	17	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2-Dibromo-3-Chloropropane	<69		160	69	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2-Dichlorobenzene	<16		160	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2-Dichloroethane	<23		79	23	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,2-Dichloropropane	<16		79	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,3,5-Trimethylbenzene	<16		160	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,3-Dichlorobenzene	<20		160	20	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,3-Dichloropropane	<11		79	11	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
2,2-Dichloropropane	<25		79	25	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
2-Chlorotoluene	<16		79	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
4-Chlorotoluene	<16		79	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Benzene	<5.9		20	5.9	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Bromobenzene	<34		160	34	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Bromochloromethane	<30		160	30	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Bromoform	<35		160	35	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Bromomethane	<54		160	54	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Carbon tetrachloride	<20		79	20	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Chlorobenzene	<11		79	11	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Chloroethane	<34		160	34	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Chloroform	<16		79	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Chloromethane	<37		160	37	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
cis-1,2-Dichloroethene	<9.7		79	9.7	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
cis-1,3-Dichloropropene	<14		79	14	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Dibromochloromethane	<27		160	27	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Dibromomethane	<38		160	38	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Dichlorodifluoromethane	<41		160	41	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Ethylbenzene	26		20	10	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Hexachlorobutadiene	<27		160	27	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Isopropyl ether	<12		160	12	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Methyl tert-butyl ether	<34		160	34	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Methylene Chloride	<54		400	54	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Naphthalene	280		160	33	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
n-Butylbenzene	<10		79	10	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
sec-Butylbenzene	<12		79	12	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Styrene	<7.8		79	7.8	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
tert-Butylbenzene	<11		79	11	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Tetrachloroethene	<13		79	13	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Toluene	73		20	9.1	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-14 8-10
Date Collected: 08/11/15 14:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-19
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<20		79	20	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
trans-1,3-Dichloropropene	<16	*	79	16	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Trichloroethene	<15		40	15	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Trichlorofluoromethane	<33		160	33	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Vinyl chloride	<8.2		20	8.2	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50
Xylenes, Total	160		40	5.4	ug/Kg	☼	08/11/15 14:50	08/18/15 20:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 125*	*08/11/15 14:50*	*08/18/15 20:12*	*50*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*	*08/11/15 14:50*	*08/18/15 20:12*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*08/11/15 14:50*	*08/18/15 20:12*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*08/11/15 14:50*	*08/18/15 20:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	130		41	10	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
2-Methylnaphthalene	160		41	7.5	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Acenaphthene	<7.3		41	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Acenaphthylene	<5.4		41	5.4	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Anthracene	32	J	41	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Benzo[a]anthracene	74		41	5.5	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Benzo[a]pyrene	100		41	7.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Benzo[b]fluoranthene	150		41	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Benzo[g,h,i]perylene	52		41	13	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Benzo[k]fluoranthene	64		41	12	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Chrysene	150		41	11	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Dibenz(a,h)anthracene	<7.9		41	7.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Fluoranthene	140		41	7.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Fluorene	<5.7		41	5.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Indeno[1,2,3-cd]pyrene	<11		41	11	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Naphthalene	220		41	6.3	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Phenanthrene	200		41	5.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1
Pyrene	100		41	8.1	ug/Kg	☼	08/16/15 19:34	08/17/15 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*25 - 119*	*08/16/15 19:34*	*08/17/15 15:06*	*1*
Nitrobenzene-d5 (Surr)	*77*		*25 - 115*	*08/16/15 19:34*	*08/17/15 15:06*	*1*
Terphenyl-d14 (Surr)	*96*		*36 - 134*	*08/16/15 19:34*	*08/17/15 15:06*	*1*

Client Sample ID: B-15 2-4
Date Collected: 08/12/15 12:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-20
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,1,1-Trichloroethane	<18		90	18	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,1,2,2-Tetrachloroethane	<21		90	21	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,1,2-Trichloroethane	<25		90	25	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,1-Dichloroethane	<17		90	17	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50

Client Sample ID: B-15 2-4
Date Collected: 08/12/15 12:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-20
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<28		90	28	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,1-Dichloropropene	<31		90	31	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2,4-Trimethylbenzene	59	J	180	19	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2-Dibromo-3-Chloropropane	<78		180	78	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2-Dichloroethane	<26		90	26	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,2-Dichloropropane	<18		90	18	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,3-Dichloropropane	<12		90	12	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
2,2-Dichloropropane	<28		90	28	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
2-Chlorotoluene	<19		90	19	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
4-Chlorotoluene	<18		90	18	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Benzene	56		22	6.7	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Bromobenzene	<38		180	38	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Bromochloromethane	<34		180	34	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Bromoform	<40		180	40	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Bromomethane	<61		180	61	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Carbon tetrachloride	<23		90	23	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Chlorobenzene	<13		90	13	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Chloroethane	<39		180	39	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Chloroform	<18		90	18	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Chloromethane	<42		180	42	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
cis-1,2-Dichloroethene	<11		90	11	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
cis-1,3-Dichloropropene	<16		90	16	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Dibromomethane	<43		180	43	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Dichlorodifluoromethane	<48		180	48	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Ethylbenzene	22		22	11	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Isopropyl ether	<13		180	13	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Methylene Chloride	<61		450	61	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Naphthalene	<44		180	44	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
n-Butylbenzene	<12		90	12	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
sec-Butylbenzene	<14		90	14	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Styrene	<8.9		90	8.9	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
tert-Butylbenzene	<12		90	12	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Tetrachloroethene	<15		90	15	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Toluene	190		22	10	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-15 2-4
Date Collected: 08/12/15 12:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-20
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<22		90	22	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
trans-1,3-Dichloropropene	<19	*	90	19	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Trichloroethene	<17		45	17	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Vinyl chloride	<9.3		22	9.3	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50
Xylenes, Total	210		45	6.1	ug/Kg	☼	08/12/15 12:55	08/18/15 20:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*08/12/15 12:55*	*08/18/15 20:37*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*08/12/15 12:55*	*08/18/15 20:37*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*08/12/15 12:55*	*08/18/15 20:37*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*08/12/15 12:55*	*08/18/15 20:37*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	480		39	9.7	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
2-Methylnaphthalene	500		39	7.3	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Acenaphthene	<7.1		39	7.1	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Acenaphthylene	<5.2		39	5.2	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Anthracene	56		39	6.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Benzo[a]anthracene	210		39	5.3	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Benzo[a]pyrene	200		39	7.7	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Benzo[b]fluoranthene	360		39	8.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Benzo[g,h,i]perylene	73		39	13	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Benzo[k]fluoranthene	150		39	12	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Chrysene	250		39	11	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Dibenz(a,h)anthracene	25	J	39	7.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Fluoranthene	350		39	7.3	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Fluorene	<5.6		39	5.6	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Indeno[1,2,3-cd]pyrene	82		39	10	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Naphthalene	370		39	6.1	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Phenanthrene	510		39	5.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1
Pyrene	530		39	7.9	ug/Kg	☼	08/16/15 19:34	08/18/15 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*25 - 119*	*08/16/15 19:34*	*08/18/15 09:29*	*1*
Nitrobenzene-d5 (Surr)	*95*		*25 - 115*	*08/16/15 19:34*	*08/18/15 09:29*	*1*
Terphenyl-d14 (Surr)	*176*	*X*	*36 - 134*	*08/16/15 19:34*	*08/18/15 09:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		1.2	0.54	mg/Kg	☼	08/13/15 19:02	08/14/15 17:57	1
Cadmium	2.4	B	0.23	0.067	mg/Kg	☼	08/13/15 19:02	08/14/15 17:57	1
Lead	110		0.58	0.29	mg/Kg	☼	08/13/15 19:02	08/14/15 17:57	1

Client Sample ID: B-16 2-4
Date Collected: 08/12/15 13:20
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-21
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,1,1-Trichloroethane	79	J	96	19	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,1,2,2-Tetrachloroethane	<22		96	22	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,1,2-Trichloroethane	<27		96	27	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,1-Dichloroethane	<18		96	18	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,1-Dichloroethene	<29		96	29	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,1-Dichloropropene	<33		96	33	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2,3-Trichloropropane	<55		190	55	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2,4-Trichlorobenzene	<35		190	35	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2,4-Trimethylbenzene	180	J	190	20	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2-Dibromo-3-Chloropropane	<53		190	83	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2-Dichloroethane	<27		96	27	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,2-Dichloropropane	<19		96	19	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,3-Dichlorobenzene	<25		190	25	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,3-Dichloropropane	<13		96	13	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
2,2-Dichloropropane	<30		96	30	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
2-Chlorotoluene	<20		96	20	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
4-Chlorotoluene	<19		96	19	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Benzene	<7.1		24	7.1	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Bromobenzene	<41		190	41	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Bromochloromethane	<36		190	36	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Bromoform	<42		190	42	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Bromomethane	<65		190	65	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Carbon tetrachloride	<25		96	25	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Chlorobenzene	<14		96	14	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Chloroethane	<42		190	42	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Chloroform	<20		96	20	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Chloromethane	<44		190	44	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
cis-1,2-Dichloroethene	<12		96	12	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
cis-1,3-Dichloropropene	<17		96	17	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Dibromomethane	<45		190	46	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Dichlorodifluoromethane	<49		190	49	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Ethylbenzene	37		24	12	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Isopropyl ether	<14		190	14	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Methyl tert-butyl ether	<41		190	41	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Methylene Chloride	<65		480	65	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Naphthalene	290		190	47	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
n-Butylbenzene	<12		96	12	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-16 2-4
Date Collected: 08/12/15 13:20
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-21
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<15		96	15	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Styrene	<9.4		96	9.4	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
tert-Butylbenzene	<13		96	13	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Tetrachloroethene	110		96	16	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Toluene	200		24	11	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
trans-1,2-Dichloroethene	<24		96	24	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
trans-1,3-Dichloropropene	<20	*	96	20	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Trichloroethene	<18		48	18	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Vinyl chloride	<9.9		24	9.9	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50
Xylenes, Total	370		48	6.5	ug/Kg	☼	08/12/15 13:20	08/18/15 21:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*08/12/15 13:20*	*08/18/15 21:02*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*08/12/15 13:20*	*08/18/15 21:02*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*08/12/15 13:20*	*08/18/15 21:02*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*08/12/15 13:20*	*08/18/15 21:02*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	470		39	9.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
2-Methylnaphthalene	490		39	7.1	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Acenaphthene	<7.0		39	7.0	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Acenaphthylene	<5.1		39	5.1	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Anthracene	45		39	6.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Benzo[a]anthracene	120		39	5.2	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Benzo[a]pyrene	95		39	7.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Benzo[b]fluoranthene	150		39	8.4	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Benzo[g,h,i]perylene	44		39	13	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Benzo[k]fluoranthene	49		39	11	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Chrysene	140		39	11	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Dibenz(a,h)anthracene	<7.5		39	7.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Fluoranthene	160		39	7.2	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Fluorene	<5.5		39	5.5	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Indeno[1,2,3-cd]pyrene	36	J	39	10	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Naphthalene	280		39	6.0	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Phenanthrene	570		39	5.4	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1
Pyrene	290		39	7.7	ug/Kg	☼	08/16/15 19:34	08/18/15 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*25 - 119*	*08/16/15 19:34*	*08/18/15 03:55*	*1*
Nitrobenzene-d5 (Surr)	*70*		*25 - 115*	*08/16/15 19:34*	*08/18/15 03:55*	*1*
Terphenyl-d14 (Surr)	*183*	*X*	*36 - 134*	*08/16/15 19:34*	*08/18/15 03:55*	*1*

Client Sample ID: B-16 8-10
Date Collected: 08/12/15 13:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-22
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,3-Dichloropropane	<7.7		58	7.7	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Benzene	<4.3		14	4.3	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Bromoform	<25		120	25	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Bromomethane	<39		120	39	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Chloroethane	<25		120	25	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Chloroform	<12		58	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Chloromethane	<27		120	27	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Methylene Chloride	<39		290	39	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Naphthalene	<29		120	29	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-16 8-10
Date Collected: 08/12/15 13:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-22
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Styrene	<5.7		58	5.7	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Tetrachloroethene	<9.7		58	9.7	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Toluene	<6.6		14	6.6	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
trans-1,3-Dichloropropene	<12	*	58	12	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Trichloroethene	<11		29	11	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50
Xylenes, Total	<4.0		29	4.0	ug/Kg	☼	08/12/15 13:25	08/18/15 21:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*	*08/12/15 13:25*	*08/18/15 21:26*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*08/12/15 13:25*	*08/18/15 21:26*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*08/12/15 13:25*	*08/18/15 21:26*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*08/12/15 13:25*	*08/18/15 21:26*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.8		36	8.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
2-Methylnaphthalene	<6.7		36	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Anthracene	**24**	**J**	36	6.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[a]pyrene	**14**	**J**	36	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[b]fluoranthene	**13**	**J**	36	7.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Chrysene	<9.9		36	9.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Fluoranthene	**27**	**J**	36	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Indeno[1,2,3-cd]pyrene	**30**	**J**	36	9.4	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Phenanthrene	**33**	**J**	36	5.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Pyrene	<7.2		36	7.2	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*25 - 119*	*08/16/15 19:34*	*08/17/15 15:35*	*1*
Nitrobenzene-d5 (Surr)	*92*		*25 - 115*	*08/16/15 19:34*	*08/17/15 15:35*	*1*
Terphenyl-d14 (Surr)	*132*		*36 - 134*	*08/16/15 19:34*	*08/17/15 15:35*	*1*

Client Sample ID: B-19 6-8
Date Collected: 08/12/15 13:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-23
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,1,1-Trichloroethane	<12		62	12	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,1,2,2-Tetrachloroethane	<14		62	14	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,1,2-Trichloroethane	<17		62	17	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,1-Dichloroethane	<11		62	11	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,1-Dichloroethene	<19		62	19	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,1-Dichloropropene	<21		62	21	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2,3-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2,3-Trichloropropane	<35		120	35	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2,4-Trichlorobenzene	<23		120	23	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2-Dibromo-3-Chloropropane	<54		120	54	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2-Dichlorobenzene	<13		120	13	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2-Dichloroethane	<18		62	18	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,2-Dichloropropane	<12		62	12	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,3,5-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,3-Dichloropropane	<8.3		62	8.3	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
2,2-Dichloropropane	<20		62	20	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
2-Chlorotoluene	<13		62	13	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
4-Chlorotoluene	<12		62	12	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Benzene	<4.6		15	4.6	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Bromochloromethane	<23		120	23	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Bromodichloromethane	<21		120	21	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Bromoform	<27		120	27	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Bromomethane	<42		120	42	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Carbon tetrachloride	<16		62	16	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Chlorobenzene	<8.8		62	8.8	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Chloroethane	<27		120	27	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Chloroform	<13		62	13	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Chloromethane	<29		120	29	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
cis-1,2-Dichloroethene	<7.6		62	7.6	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
cis-1,3-Dichloropropene	<11		62	11	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Dibromomethane	<30		120	30	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Dichlorodifluoromethane	<32		120	32	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Ethylbenzene	<7.8		15	7.8	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Isopropyl ether	<9.1		120	9.1	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Isopropylbenzene	<16		120	16	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Methyl tert-butyl ether	<27		120	27	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Methylene Chloride	<42		310	42	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Naphthalene	320		120	31	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
n-Butylbenzene	<8.0		62	8.0	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-19 6-8
Date Collected: 08/12/15 13:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-23
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.5		62	9.5	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Styrene	<6.1		62	6.1	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
tert-Butylbenzene	<8.4		62	8.4	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Tetrachloroethene	<10		62	10	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Toluene	<7.1		15	7.1	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
trans-1,2-Dichloroethene	<15		62	15	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
trans-1,3-Dichloropropene	<13	*	62	13	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Trichloroethene	<11		31	11	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Trichlorofluoromethane	<26		120	26	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Vinyl chloride	<6.4		15	6.4	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50
Xylenes, Total	<4.2		31	4.2	ug/Kg	☼	08/12/15 13:40	08/18/15 21:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*	*08/12/15 13:40*	*08/18/15 21:51*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*08/12/15 13:40*	*08/18/15 21:51*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*08/12/15 13:40*	*08/18/15 21:51*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*08/12/15 13:40*	*08/18/15 21:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	79	J	180	45	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
2-Methylnaphthalene	83	J	180	34	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Acenaphthene	140	J	180	33	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Acenaphthylene	130	J	180	24	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Anthracene	890		180	31	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Benzo[a]anthracene	1600		180	25	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Benzo[a]pyrene	1500		180	36	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Benzo[b]fluoranthene	2300		180	40	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Benzo[g,h,i]perylene	500		180	59	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Benzo[k]fluoranthene	1100		180	54	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Chrysene	1600		180	50	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Dibenz(a,h)anthracene	140	J	180	36	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Fluoranthene	3200		180	34	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Fluorene	270		180	26	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Indeno[1,2,3-cd]pyrene	530		180	48	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Naphthalene	98	J	180	23	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Phenanthrene	2400		180	26	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5
Pyrene	4800		180	37	ug/Kg	☼	08/16/15 19:34	08/18/15 10:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*25 - 119*	*08/16/15 19:34*	*08/18/15 10:21*	*5*
Nitrobenzene-d5 (Surr)	*41*		*25 - 115*	*08/16/15 19:34*	*08/18/15 10:21*	*5*
Terphenyl-d14 (Surr)	*92*		*35 - 134*	*08/16/15 19:34*	*08/18/15 10:21*	*5*

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-20 2-4
Date Collected: 08/12/15 14:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-24
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		130	23	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,1,1-Trichloroethane	<14		67	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,1,2,2-Tetrachloroethane	<16		67	16	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,1,2-Trichloroethane	<19		67	19	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,1-Dichloroethane	<12		67	12	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,1-Dichloroethene	<21		67	21	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,1-Dichloropropene	<23		67	23	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2,3-Trichlorobenzene	<24		130	24	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2,3-Trichloropropane	<39		130	39	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2,4-Trichlorobenzene	<25		130	25	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2-Dibromo-3-Chloropropane	<59		130	59	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2-Dibromoethane	<21		130	21	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2-Dichlorobenzene	<14		130	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2-Dichloroethane	<19		67	19	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,2-Dichloropropane	<13		67	13	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,3,5-Trimethylbenzene	<14		130	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,3-Dichloropropane	<9.0		67	9.0	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
1,4-Dichlorobenzene	<12		130	12	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
2,2-Dichloropropane	<21		67	21	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
2-Chlorotoluene	<14		67	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
4-Chlorotoluene	<13		67	13	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Benzene	<5.0		17	5.0	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Bromobenzene	<29		130	29	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Bromochloromethane	<25		130	25	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Bromodichloromethane	<23		130	23	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Bromoform	<30		130	30	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Bromomethane	<46		130	46	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Carbon tetrachloride	<17		67	17	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Chlorobenzene	<9.6		67	9.6	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Chloroethane	<29		130	29	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Chloroform	<14		67	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Chloromethane	<31		130	31	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
cis-1,2-Dichloroethene	<8.3		67	8.3	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
cis-1,3-Dichloropropene	<12		67	12	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Dibromochloromethane	<23		130	23	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Dibromomethane	<32		130	32	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Dichlorodifluoromethane	<35		130	35	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Ethylbenzene	<8.5		17	8.5	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Hexachlorobutadiene	<23		130	23	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Isopropyl ether	<9.9		130	9.9	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Isopropylbenzene	<17		130	17	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Methyl tert-butyl ether	<29		130	29	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Methylene Chloride	<46		340	46	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Naphthalene	<33		130	33	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
n-Butylbenzene	<8.7		67	8.7	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
N-Propylbenzene	<12		130	12	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-20 2-4
Date Collected: 08/12/15 14:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-24
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<10		67	10	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Styrene	<9.7		67	9.7	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
tert-Butylbenzene	<9.2		67	9.2	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Tetrachloroethene	<11		67	11	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Toluene	23		17	7.8	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
trans-1,2-Dichloroethene	<17		67	17	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
trans-1,3-Dichloropropene	<14	*	67	14	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Trichloroethene	<13		34	13	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Trichlorofluoromethane	<28		130	28	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Vinyl chloride	<7.0		17	7.0	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50
Xylenes, Total	<4.6		34	4.6	ug/Kg	☼	08/12/15 14:50	08/18/15 22:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*	*08/12/15 14:50*	*08/18/15 22:38*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*08/12/15 14:50*	*08/18/15 22:38*	*50*
Dibromofluoromethane	*86*		*75 - 120*	*08/12/15 14:50*	*08/18/15 22:38*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*08/12/15 14:50*	*08/18/15 22:38*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	82		35	8.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
2-Methylnaphthalene	66		35	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Acenaphthene	7.7	J	35	6.3	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Acenaphthylene	14	J	35	4.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Anthracene	50		35	5.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Benzo[a]anthracene	100		35	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Benzo[a]pyrene	110		35	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Benzo[b]fluoranthene	130		35	7.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Benzo[g,h,i]perylene	16	J	35	11	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Benzo[k]fluoranthene	62		35	10	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Chrysene	120		35	9.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Dibenz(a,h)anthracene	24	J	35	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Fluoranthene	180		35	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Fluorene	<4.9		35	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Indeno[1,2,3-cd]pyrene	68		35	9.1	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Naphthalene	67		35	5.4	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Phenanthrene	160		35	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1
Pyrene	150		35	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*25 - 119*	*08/16/15 19:34*	*08/17/15 15:05*	*1*
Nitrobenzene-d5 (Surr)	*95*		*25 - 115*	*08/16/15 19:34*	*08/17/15 15:05*	*1*
Terphenyl-d14 (Surr)	*125*		*36 - 134*	*08/16/15 19:34*	*08/17/15 15:05*	*1*

Client Sample ID: B-21 6-8
Date Collected: 08/12/15 13:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-25
Matrix: Solid
Percent Solids: 62.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<42		240	42	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,1,1-Trichloroethane	<24		120	24	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,1,2,2-Tetrachloroethane	<28		120	28	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,1,2-Trichloroethane	<34		120	34	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,1-Dichloroethane	<22		120	22	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,1-Dichloroethene	<37		120	37	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,1-Dichloropropene	<42		120	42	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2,3-Trichlorobenzene	<43		240	43	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2,3-Trichloropropane	<70		240	70	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2,4-Trichlorobenzene	<46		240	46	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2,4-Trimethylbenzene	<26		240	26	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2-Dibromo-3-Chloropropane	<110		240	110	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2-Dibromoethane	<39		240	39	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2-Dichlorobenzene	<25		240	25	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2-Dichloroethane	<35		120	35	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,2-Dichloropropane	<24		120	24	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,3,5-Trimethylbenzene	<25		240	25	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,3-Dichlorobenzene	<31		240	31	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,3-Dichloropropane	<18		120	18	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
1,4-Dichlorobenzene	<21		240	21	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
2,2-Dichloropropane	<38		120	38	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
2-Chlorotoluene	<25		120	25	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
4-Chlorotoluene	<24		120	24	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Benzene	25	J	30	9.0	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Bromobenzene	<52		240	52	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Bromochloromethane	<46		240	46	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Bromodichloromethane	<41		240	41	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Bromoform	<54		240	54	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Bromomethane	<83		240	83	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Carbon tetrachloride	<31		120	31	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Chlorobenzene	<17		120	17	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Chloroethane	<53		240	53	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Chloroform	<25		120	25	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Chloromethane	<56		240	56	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
cis-1,2-Dichloroethene	<15		120	15	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
cis-1,3-Dichloropropene	<22		120	22	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Dibromochloromethane	<42		240	42	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Dibromomethane	<58		240	58	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Dichlorodifluoromethane	<62		240	62	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Ethylbenzene	<15		30	15	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Hexachlorobutadiene	<42		240	42	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Isopropyl ether	<18		240	18	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Isopropylbenzene	<30		240	30	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Methyl tert-butyl ether	<52		240	52	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Methylene Chloride	<83		610	83	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Naphthalene	<60		240	60	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
n-Butylbenzene	<16		120	16	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
N-Propylbenzene	<21		240	21	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
p-Isopropyltoluene	<22		240	22	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-21 6-8
Date Collected: 08/12/15 13:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-25
Matrix: Solid
Percent Solids: 62.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<19		120	19	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Styrene	<12		120	12	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
tert-Butylbenzene	<17		120	17	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Tetrachloroethene	<20		120	20	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Toluene	38		30	14	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
trans-1,2-Dichloroethene	<30		120	30	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
trans-1,3-Dichloropropene	<25	*	120	25	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Trichloroethene	<23		61	23	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Trichlorofluoromethane	<50		240	50	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Vinyl chloride	<13		30	13	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50
Xylenes, Total	<9.3		61	8.3	ug/Kg	☼	08/12/15 13:55	08/18/15 23:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*08/12/15 13:55*	*08/18/15 23:03*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*08/12/15 13:55*	*08/18/15 23:03*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*08/12/15 13:55*	*08/18/15 23:03*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*08/12/15 13:55*	*08/18/15 23:03*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		52	13	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
2-Methylnaphthalene	<9.6		52	9.6	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Acenaphthene	<9.4		52	9.4	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Acenaphthylene	<6.9		52	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Anthracene	40	J	52	8.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[a]anthracene	25	J	52	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[a]pyrene	50	J	52	10	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[b]fluoranthene	41	J	52	11	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[g,h,i]perylene	<17		52	17	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Benzo[k]fluoranthene	<15		52	15	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Chrysene	35	J	52	14	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Dibenz(a,h)anthracene	<10		52	10	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Fluoranthene	90		52	9.7	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Fluorene	<7.3		52	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Indeno[1,2,3-cd]pyrene	<14		52	14	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Naphthalene	42	J	52	8.0	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Phenanthrene	67		52	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1
Pyrene	71		52	10	ug/Kg	☼	08/16/15 19:34	08/17/15 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*25 - 119*	*08/16/15 19:34*	*08/17/15 15:35*	*1*
Nitrobenzene-d5 (Surr)	*87*		*25 - 115*	*08/16/15 19:34*	*08/17/15 15:35*	*1*
Terphenyl-d14 (Surr)	*111*		*38 - 134*	*08/16/15 19:34*	*08/17/15 15:35*	*1*

Client Sample ID: B-23 4-7
Date Collected: 08/12/15 14:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-26
Matrix: Solid
Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,1,1-Trichloroethane	<11		55	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,1,2,2-Tetrachloroethane	<13		55	13	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,1,2-Trichloroethane	<15		55	15	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,1-Dichloroethane	<10		55	10	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,1-Dichloroethene	<17		55	17	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,1-Dichloropropene	<19		55	19	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2-Dibromo-3-Chloropropane	<45		110	48	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2-Dichloroethane	<16		55	16	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,2-Dichloropropane	<11		55	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,3-Dichloropropane	<7.3		55	7.3	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
1,4-Dichlorobenzene	<9.5		110	9.5	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
2,2-Dichloropropane	<17		55	17	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
2-Chlorotoluene	<11		65	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
4-Chlorotoluene	<11		55	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Benzene	<4.1		14	4.1	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Bromobenzene	<23		110	23	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Bromochloromethane	<21		110	21	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Bromoform	<24		110	24	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Bromomethane	<37		110	37	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Carbon tetrachloride	<14		55	14	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Chlorobenzene	<7.8		55	7.8	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Chloroethane	<24		110	24	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Chloroform	<11		55	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Chloromethane	<25		110	25	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
cis-1,2-Dichloroethene	<6.7		55	6.7	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
cis-1,3-Dichloropropene	<9.7		55	9.7	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Dibromomethane	<26		110	26	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Ethylbenzene	<6.9		14	6.9	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Isopropyl ether	<8.0		110	8.0	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Methylene Chloride	<37		270	37	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Naphthalene	<27		110	27	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
n-Butylbenzene	<7.0		55	7.0	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
N-Propylbenzene	<9.6		110	9.6	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-23 4-7
Date Collected: 08/12/15 14:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-26
Matrix: Solid
Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.4		55	8.4	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Styrene	<5.4	*	55	5.4	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
tert-Butylbenzene	<7.4		55	7.4	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Tetrachloroethene	<9.1		55	9.1	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Toluene	**18**	**B**	14	6.3	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
trans-1,2-Dichloroethene	<14		55	14	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
trans-1,3-Dichloropropene	<11		55	11	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Trichloroethene	<10		27	10	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Vinyl chloride	<5.7		14	5.7	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50
Xylenes, Total	<3.7	*	27	3.7	ug/Kg	☼	08/12/15 14:15	08/18/15 16:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*08/12/15 14:15*	*08/18/15 16:14*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*08/12/15 14:15*	*08/18/15 16:14*	*50*
Dibromofluoromethane	*94*		*75 - 120*	*08/12/15 14:15*	*08/18/15 16:14*	*50*
Toluene-d8 (Surr)	*90*		*75 - 120*	*08/12/15 14:15*	*08/18/15 16:14*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.7		35	8.7	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
2-Methylnaphthalene	<6.5		35	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Anthracene	**25**	**J**	35	5.9	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Benzo[a]anthracene	**35**		35	4.8	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Benzo[a]pyrene	**36**		35	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Benzo[b]fluoranthene	**40**		35	7.7	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Chrysene	**37**		35	9.7	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Dibenz(a,h)anthracene	<3.9		35	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Fluoranthene	**71**		35	6.6	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Indeno[1,2,3-cd]pyrene	<9.2		35	9.2	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Naphthalene	<5.5		35	5.5	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Phenanthrene	**50**		35	5.0	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1
Pyrene	**48**		35	7.1	ug/Kg	☼	08/16/15 19:34	08/17/15 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*25 - 119*	*08/16/15 19:34*	*08/17/15 17:04*	*1*
Nitrobenzene-d5 (Surr)	*51*		*25 - 115*	*08/16/15 19:34*	*08/17/15 17:04*	*1*
Terphenyl-d14 (Surr)	*72*		*36 - 134*	*08/16/15 19:34*	*08/17/15 17:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**		1.0	0.48	mg/Kg	☼	08/13/15 19:02	08/14/15 13:02	1
Cadmium	**0.48**	**B**	0.21	0.060	mg/Kg	☼	08/13/15 19:02	08/14/15 13:02	1
Lead	**170**		0.52	0.26	mg/Kg	☼	08/13/15 19:02	08/14/15 13:02	1

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-24 2-4
Date Collected: 08/12/15 14:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-27
Matrix: Solid
Percent Solids: 89.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,1,1-Trichloroethane	<12		61	12	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,1,2,2-Tetrachloroethane	<14		61	14	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,1,2-Trichloroethane	<17		61	17	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,1-Dichloroethane	<11		61	11	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,1-Dichloroethene	<19		61	19	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,1-Dichloropropene	<21		61	21	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2,3-Trichlorobenzene	<21		120	21	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2,3-Trichloropropane	<35		120	35	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2,4-Trichlorobenzene	<23		120	23	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2,4-Trimethylbenzene	**97**	**J**	120	13	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2-Dibromo-3-Chloropropane	<53		120	53	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2-Dichloroethane	<17		61	17	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,2-Dichloropropane	<12		61	12	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,3,5-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,3-Dichloropropane	<8.2		61	8.2	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
2,2-Dichloropropane	<19		61	19	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
2-Chlorotoluene	<13		61	13	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
4-Chlorotoluene	<12		61	12	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Benzene	**38**		15	4.5	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Bromobenzene	<26		120	26	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Bromochloromethane	<23		120	23	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Bromodichloromethane	<21		120	21	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Bromoform	<27		120	27	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Bromomethane	<42		120	42	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Carbon tetrachloride	<16		61	16	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Chlorobenzene	<8.7		61	8.7	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Chloroethane	<26		120	26	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Chloroform	<12		61	12	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Chloromethane	<28		120	28	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
cis-1,2-Dichloroethene	<7.5		61	7.5	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
cis-1,3-Dichloropropene	<11		61	11	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Dibromomethane	<29		120	29	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Dichlorodifluoromethane	<31		120	31	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Ethylbenzene	**66**		15	7.7	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Isopropyl ether	<8.9		120	8.9	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Methyl tert-butyl ether	<26		120	26	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Methylene Chloride	<42		300	42	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Naphthalene	**240**		120	30	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
n-Butylbenzene	<7.9		61	7.9	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
N-Propylbenzene	**52**	**J**	120	11	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-24 2-4
Date Collected: 08/12/15 14:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-27
Matrix: Solid
Percent Solids: 89.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.4		61	9.4	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Styrene	<8.0	*	61	8.0	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
tert-Butylbenzene	<8.3		61	8.3	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Tetrachloroethene	<10		61	10	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Toluene	**260**	**B**	15	7.0	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
trans-1,2-Dichloroethene	<15		61	15	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
trans-1,3-Dichloropropene	<13		61	13	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Trichloroethene	<11		30	11	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Vinyl chloride	<8.3		15	8.3	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50
Xylenes, Total	**490**	*	30	4.2	ug/Kg	☼	08/12/15 14:30	08/18/15 16:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*08/12/15 14:30*	*08/18/15 16:43*	*50*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*	*08/12/15 14:30*	*08/18/15 16:43*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*08/12/15 14:30*	*08/18/15 16:43*	*50*
Toluene-d8 (Surr)	*87*		*75 - 120*	*08/12/15 14:30*	*08/18/15 16:43*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**160**		35	8.6	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
2-Methylnaphthalene	**150**		35	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Acenaphthene	<6.3		35	6.3	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Acenaphthylene	<4.6		35	4.6	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Anthracene	**25**	**J**	35	5.9	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Benzo[a]anthracene	**10**	**J**	35	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Benzo[a]pyrene	**16**	**J**	35	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Benzo[b]fluoranthene	<7.6		35	7.6	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Chrysene	**23**	**J**	35	9.6	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Dibenz(a,h)anthracene	<3.8		35	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Fluoranthene	**27**	**J**	35	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Fluorene	<4.9		35	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Indeno[1,2,3-cd]pyrene	<9.1		35	9.1	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Naphthalene	**150**		35	5.4	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Phenanthrene	**92**		35	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1
Pyrene	<7.0		35	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*25 - 119*	*08/16/15 19:34*	*08/17/15 17:34*	*1*
Nitrobenzene-d5 (Surr)	*64*		*25 - 115*	*08/16/15 19:34*	*08/17/15 17:34*	*1*
Terphenyl-d14 (Surr)	*94*		*35 - 134*	*08/16/15 19:34*	*08/17/15 17:34*	*1*

Client Sample ID: B-24 8-10
Date Collected: 08/12/15 14:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-28
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,1,1-Trichloroethane	<14		69	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,1,2,2-Tetrachloroethane	<16		69	16	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,1,2-Trichloroethane	<19		69	19	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,1-Dichloroethane	<13		69	13	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,1-Dichloroethene	<21		69	21	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,1-Dichloropropene	<24		69	24	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2-Dibromo-3-Chloropropane	<60		140	60	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2-Dichloroethane	<20		69	20	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,2-Dichloropropane	<14		69	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,3-Dichloropropane	<9.3		69	9.3	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
2,2-Dichloropropane	<22		69	22	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
2-Chlorotoluene	<14		69	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
4-Chlorotoluene	<14		69	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Benzene	<5.1		17	5.1	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Bromobenzene	<29		140	29	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Bromochloromethane	<26		140	26	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Bromodichloromethane	<23		140	23	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Bromoform	<30		140	30	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Bromomethane	<47		140	47	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Carbon tetrachloride	<18		69	18	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Chlorobenzene	<9.9		69	9.9	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Chloroethane	<30		140	30	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Chloroform	<14		69	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Chloromethane	<32		140	32	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
cis-1,2-Dichloroethene	<8.5		69	8.5	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
cis-1,3-Dichloropropene	<12		69	12	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Dibromomethane	<33		140	33	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Dichlorodifluoromethane	<35		140	35	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Ethylbenzene	<8.7		17	8.7	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Isopropyl ether	<10		140	10	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Isopropylbenzene	<17		140	17	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Methylene Chloride	<47		350	47	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Naphthalene	<34		140	34	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
n-Butylbenzene	<8.9		69	8.9	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-24 8-10
Date Collected: 08/12/15 14:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-28
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<11		69	11	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Styrene	<5.8	*	69	5.8	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
tert-Butylbenzene	<9.4		69	9.4	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Tetrachloroethene	<12		69	12	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Toluene	<7.9		17	7.9	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
trans-1,2-Dichloroethene	<17		69	17	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
trans-1,3-Dichloropropene	<14		69	14	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Trichloroethene	<13		35	13	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Vinyl chloride	<7.2		17	7.2	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50
Xylenes, Total	<4.7	*	35	4.7	ug/Kg	☼	08/12/15 14:40	08/18/15 17:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*08/12/15 14:40*	*08/18/15 17:11*	*50*
4-Bromofluorobenzene (Surr)	*88*		*75 - 120*	*08/12/15 14:40*	*08/18/15 17:11*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*08/12/15 14:40*	*08/18/15 17:11*	*50*
Toluene-d8 (Surr)	*88*		*75 - 120*	*08/12/15 14:40*	*08/18/15 17:11*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.2		37	9.2	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
2-Methylnaphthalene	<6.9		37	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Acenaphthene	<6.8		37	6.8	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Acenaphthylene	<5.0		37	5.0	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Anthracene	**24**	**J**	37	6.3	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Benzo[a]anthracene	**11**	**J**	37	5.1	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Benzo[a]pyrene	<7.3		37	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Benzo[b]fluoranthene	**12**	**J**	37	8.1	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Chrysene	**12**	**J**	37	10	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Dibenz(a,h)anthracene	<7.3		37	7.3	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Fluoranthene	**29**	**J**	37	7.0	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Indeno[1,2,3-cd]pyrene	**31**	**J**	37	9.8	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Phenanthrene	**28**	**J**	37	5.2	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1
Pyrene	**12**	**J**	37	7.5	ug/Kg	☼	08/16/15 19:34	08/17/15 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*25 - 119*	*08/16/15 19:34*	*08/17/15 13:04*	*1*
Nitrobenzene-d5 (Surr)	*96*		*25 - 115*	*08/16/15 19:34*	*08/17/15 13:04*	*1*
Terphenyl-d14 (Surr)	*115*		*36 - 134*	*08/16/15 19:34*	*08/17/15 13:04*	*1*

Client Sample ID: B-28 0-2
Date Collected: 08/12/15 11:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-29
Matrix: Solid
Percent Solids: 89.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<32		91	32	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5
PCB-1221	<40		91	40	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5
PCB-1232	<40		91	40	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5
PCB-1242	870		91	30	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5
PCB-1248	<36		91	36	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5
PCB-1254	<20		91	20	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5
PCB-1260	<45		91	45	ug/Kg	☼	08/13/15 17:02	08/14/15 11:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*50 - 116*	*08/13/15 17:02*	*08/14/15 11:36*	*5*
DCB Decachlorobiphenyl	*135*		*48 - 142*	*08/13/15 17:02*	*08/14/15 11:36*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.1	0.49	mg/Kg	☼	08/13/15 19:02	08/14/15 18:14	1
Cadmium	0.53	B	0.21	0.061	mg/Kg	☼	08/13/15 19:02	08/14/15 18:14	1
Lead	35		0.53	0.26	mg/Kg	☼	08/13/15 19:02	08/14/15 18:14	1

Client Sample ID: B-31 2-4
Date Collected: 08/12/15 10:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-30
Matrix: Solid
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,1-Dichloroethene	<13		58	13	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Benzene	<4.3		14	4.3	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-31 2-4
Date Collected: 08/12/15 10:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-30
Matrix: Solid
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Bromoform	<26		120	26	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Bromomethane	<39		120	39	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Chloroethane	<25		120	25	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Chloroform	<12		58	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Chloromethane	<27		120	27	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Methylene Chloride	<40		290	40	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Naphthalene	<29		120	29	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Styrene	<5.7	*	58	5.7	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Tetrachloroethene	<9.7		58	9.7	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Toluene	<6.7		14	6.7	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Trichloroethene	<11		29	11	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50
Xylenes, Total	31	*	29	4.0	ug/Kg	☼	08/12/15 10:55	08/18/15 17:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*08/12/15 10:55*	*08/18/15 17:39*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*08/12/15 10:55*	*08/18/15 17:39*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*08/12/15 10:55*	*08/18/15 17:39*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*08/12/15 10:55*	*08/18/15 17:39*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	24	J	35	8.5	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
2-Methylnaphthalene	15	J	35	6.4	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Acenaphthene	<5.3		35	6.3	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Acenaphthylene	<4.6		35	4.6	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Anthracene	22	J	35	5.8	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Benzo[a]anthracene	15	J	35	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Benzo[a]pyrene	13	J	35	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1

Client Sample ID: B-31 2-4
Date Collected: 08/12/15 10:55
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-30
Matrix: Solid
Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	21	J	35	7.5	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Chrysene	13	J	35	9.5	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Dibenz(a,h)anthracene	<6.7		35	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Fluoranthene	34	J	35	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Fluorene	<4.9		35	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Indeno[1,2,3-cd]pyrene	<9.0		35	9.0	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Naphthalene	38		35	5.4	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Phenanthrene	41		35	4.9	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1
Pyrene	17	J	35	6.9	ug/Kg	☼	08/16/15 19:34	08/17/15 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	08/16/15 19:34	08/17/15 18:33	1
Nitrobenzene-d5 (Surr)	89		25 - 115	08/16/15 19:34	08/17/15 18:33	1
Terphenyl-d14 (Surr)	108		36 - 134	08/16/15 19:34	08/17/15 18:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.0	0.48	mg/Kg	☼	08/13/15 19:02	08/14/15 18:19	1
Cadmium	0.31	B	0.21	0.061	mg/Kg	☼	08/13/15 19:02	08/14/15 18:19	1
Lead	11		0.52	0.26	mg/Kg	☼	08/13/15 19:02	08/14/15 18:19	1

Client Sample ID: B-32 8-10
Date Collected: 08/12/15 10:10
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-31
Matrix: Solid
Percent Solids: 95.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
1,4-Dichlorobenzene	<9.8		110	9.8	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50

Client Sample ID: B-32 8-10
Date Collected: 08/12/15 10:10
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-31
Matrix: Solid
Percent Solids: 95.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<12		56	12	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Benzene	<4.2		14	4.2	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Bromobenzene	<24		110	24	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Bromochloromethane	<21		110	21	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Bromoform	<25		110	25	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Bromomethane	<38		110	38	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Chlorobenzene	<8.1		56	8.1	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Chloroethane	<24		110	24	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Chloroform	<12		56	12	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Chloromethane	<26		110	26	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Dibromomethane	<27		110	27	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Isopropyl ether	<8.3		110	8.3	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	08/12/16 10:10	08/18/16 18:07	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Methylene Chloride	<38		280	38	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Naphthalene	<28		110	28	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
n-Butylbenzene	<7.3		56	7.3	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
N-Propylbenzene	<9.9		110	9.9	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
sec-Butylbenzene	<8.7		56	8.7	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Styrene	<5.6	*	56	5.6	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
tert-Butylbenzene	<7.7		56	7.7	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Tetrachloroethene	<9.4		56	9.4	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Toluene	<6.5		14	6.5	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Trichloroethene	<10		28	10	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Vinyl chloride	<5.9		14	5.9	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50
Xylenes, Total	<3.9	*	28	3.9	ug/Kg	☼	08/12/15 10:10	08/18/15 18:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125	08/12/15 10:10	08/18/15 18:07	50
4-Bromofluorobenzene (Surr)	90		75 - 120	08/12/15 10:10	08/18/15 18:07	50
Dibromofluoromethane	101		75 - 120	08/12/15 10:10	08/18/15 18:07	50
Toluene-d8 (Surr)	87		75 - 120	08/12/15 10:10	08/18/15 18:07	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.2		33	6.2	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
2-Methylnaphthalene	<6.2		33	6.2	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1

Client Sample ID: B-32 8-10
Date Collected: 08/12/15 10:10
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-31
Matrix: Solid
Percent Solids: 95.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Acenaphthylene	<4.4		33	4.4	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Anthracene	<5.6		33	5.6	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Benzo[a]pyrene	<6.5		33	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Benzo[k]fluoranthene	<9.9		33	9.9	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Chrysene	<9.1		33	9.1	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Dibenz(a,h)anthracene	<6.5		33	6.5	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Fluoranthene	<6.2		33	6.2	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Fluorene	<4.7		33	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Indeno[1,2,3-cd]pyrene	<8.7		33	8.7	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Naphthalene	<5.2		33	5.2	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Phenanthrene	<4.7		33	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1
Pyrene	<6.7		33	6.7	ug/Kg	☼	08/16/15 19:34	08/17/15 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		25 - 119	08/16/15 19:34	08/17/15 19:03	1
Nitrobenzene-d5 (Surr)	93		25 - 115	08/16/15 19:34	08/17/15 19:03	1
Terphenyl-d14 (Surr)	125		36 - 134	08/16/15 19:34	08/17/15 19:03	1

Client Sample ID: B-33 0-2
Date Collected: 08/12/15 10:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-32
Matrix: Solid
Percent Solids: 93.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,1,2,2-Tetrachloroethane	<13		58	13	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,1-Dichloroethene	<19		58	18	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,3-Dichloropropane	<7.7		58	7.7	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
2-Chlorotoluene	<12		53	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50

Client Sample ID: B-33 0-2
Date Collected: 08/12/15 10:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-32
Matrix: Solid
Percent Solids: 93.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<11		53	11	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Benzene	<4.3		14	4.3	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Bromobenzene	<24		120	24	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Bromodichloromethane	<19		120	19	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Bromoform	<25		120	25	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Bromomethane	<39		120	39	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Carbon tetrachloride	<15		53	15	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Chlorobenzene	<8.2		58	8.2	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Chloroethane	<25		120	25	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Chloroform	<12		58	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Chloromethane	<27		120	27	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Isopropylbenzene	<14		120	14	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Methylene Chloride	<39		290	39	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Naphthalene	<28		120	28	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
n-Butylbenzene	<7.4		53	7.4	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
sec-Butylbenzene	<8.9		53	8.9	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Styrene	<5.7	*	53	5.7	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
tert-Butylbenzene	<7.8		58	7.8	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Tetrachloroethene	<9.6		58	9.6	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Toluene	<5.6		14	5.6	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Trichloroethene	<11		23	11	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50
Xylenes, Total	<3.9	*	29	3.9	ug/Kg	☼	08/12/15 10:30	08/18/15 18:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125	08/12/15 10:30	08/18/15 18:35	50
4-Bromofluorobenzene (Surr)	91		75 - 120	08/12/15 10:30	08/18/15 18:35	50
Dibromofluoromethane	101		75 - 120	08/12/15 10:30	08/18/15 18:35	50
Toluene-d8 (Surr)	90		75 - 120	08/12/15 10:30	08/18/15 18:35	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.4		34	8.4	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
2-Methylnaphthalene	<6.3		34	6.3	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1

Client Sample ID: B-33 0-2
Date Collected: 08/12/15 10:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-32
Matrix: Solid
Percent Solids: 93.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	7.5	J	34	4.5	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Anthracene	22	J	34	5.7	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Benzo[a]anthracene	180		34	4.6	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Benzo[a]pyrene	230		34	6.6	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Benzo[b]fluoranthene	400		34	7.4	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Benzo[g,h,i]perylene	97		34	11	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Benzo[k]fluoranthene	170		34	10	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Chrysene	250		34	9.3	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Dibenz(a,h)anthracene	23	J	34	6.6	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Fluoranthene	340		34	5.4	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Fluorene	5.8	J	34	4.8	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Indeno[1,2,3-cd]pyrene	100		34	8.9	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Phenanthrene	110		34	4.8	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1
Pyrene	560		34	6.8	ug/Kg	☼	08/16/15 19:34	08/18/15 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	93		25 - 119	08/16/15 19:34	08/18/15 10:47	1
Nitrobenzene-d5 (Surr)	90		25 - 115	08/16/15 19:34	08/18/15 10:47	1
Terphenyl-d14 (Surr)	176	X	36 - 134	08/16/15 19:34	08/18/15 10:47	1

Client Sample ID: B-34 2-4
Date Collected: 08/12/15 08:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-33
Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,1,1-Trichloroethane	<12		60	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,1,2,2-Tetrachloroethane	<14		60	14	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,1,2-Trichloroethane	<17		60	17	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,1-Dichloroethane	<11		60	11	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,1-Dichloroethene	<18		60	18	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,1-Dichloropropene	<21		60	21	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2,3-Trichlorobenzene	<21		120	21	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2,4-Trichlorobenzene	<23		120	23	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2-Dibromo-3-Chloropropane	<52		120	52	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2-Dichloroethane	<17		60	17	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,2-Dichloropropane	<12		60	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,3-Dichloropropane	<8.0		60	8.0	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
2,2-Dichloropropane	<19		60	19	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
2-Chlorotoluene	<12		60	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
4-Chlorotoluene	<12		60	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: B-34 2-4
Date Collected: 08/12/15 08:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-33
Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.4		15	4.4	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Bromochloromethane	<23		120	23	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Bromoform	<26		120	26	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Bromomethane	<41		120	41	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Carbon tetrachloride	<15		60	15	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Chlorobenzene	<8.6		60	8.6	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Chloroethane	<26		120	26	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Chloroform	<12		60	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Chloromethane	<28		120	28	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
cis-1,2-Dichloroethene	<7.4		60	7.4	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
cis-1,3-Dichloropropene	<11		60	11	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Dibromomethane	<29		120	29	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Dichlorodifluoromethane	<31		120	31	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Ethylbenzene	<7.6		15	7.6	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Isopropyl ether	<8.8		120	8.8	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Methyl tert-butyl ether	<26		120	26	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Methylene Chloride	<41		300	41	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Naphthalene	<30		120	30	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
n-Butylbenzene	<7.7		60	7.7	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
sec-Butylbenzene	<9.2		60	9.2	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Styrene	<5.9	*	60	5.9	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
tert-Butylbenzene	<8.2		60	8.2	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Tetrachloroethene	<10		60	10	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Toluene	<6.9		15	6.9	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
trans-1,2-Dichloroethene	<15		60	15	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
trans-1,3-Dichloropropene	<12		60	12	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Trichloroethene	<11		30	11	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Vinyl chloride	<6.2		15	6.2	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50
Xylenes, Total	<4.1	*	30	4.1	ug/Kg	☼	08/12/15 08:40	08/18/15 19:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	104		75 - 125	08/12/15 08:40	08/18/15 19:02	50
4-Bromofluorobenzene (Surr)	94		75 - 120	08/12/15 08:40	08/18/15 19:02	50
Dibromofluoromethane	99		75 - 120	08/12/15 08:40	08/18/15 19:02	50
Toluene-d8 (Surr)	89		75 - 120	08/12/15 08:40	08/18/15 19:02	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<3.8		36	8.8	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
2-Methylnaphthalene	<5.5		36	6.6	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Acenaphthene	8.6	J	36	6.4	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1
Acenaphthylene	<4.7		36	4.7	ug/Kg	☼	08/16/15 19:34	08/17/15 13:33	1

Client Sample ID: B-34 2-4

Date Collected: 08/12/15 08:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-33
Matrix: Solid
Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	32	J	36	6.0	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Benzo[a]anthracene	48		36	4.8	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Benzo[a]pyrene	37		36	6.9	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Benzo[b]fluoranthene	57		36	7.7	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Chrysene	51		36	9.8	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Dibenz(a,h)anthracene	<6.9		36	6.9	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Fluoranthene	110		36	6.7	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Fluorene	<5.0		36	5.0	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Indeno[1,2,3-cd]pyrene	31	J	36	9.3	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Naphthalene	25	J	36	5.5	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Phenanthrene	68		36	5.0	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1
Pyrene	85		36	7.1	ug/Kg	☼	08/18/15 19:34	08/17/15 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*25 - 119*	*08/18/15 19:34*	*08/17/15 19:33*	*1*
Nitrobenzene-d5 (Surr)	*68*		*25 - 115*	*08/18/15 19:34*	*08/17/15 19:33*	*1*
Terphenyl-d14 (Surr)	*100*		*36 - 134*	*08/18/15 19:34*	*08/17/15 19:33*	*1*

Client Sample ID: Trip Blank

Date Collected: 08/11/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-34
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,1-Dichloroethene	<15		50	15	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,1-Dichloropropene	<17		50	17	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2-Dibromoethane	<16		100	16	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2-Dichloroethane	<14		50	14	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
2,2-Dichloropropane	<16		50	16	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
2-Chlorotoluene	<10		50	10	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Benzene	<3.7		13	3.7	ug/Kg		08/11/15 00:00	08/18/15 15:19	50

Client Sample ID: Trip Blank

Date Collected: 08/11/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-34
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<21		100	21	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Bromochloromethane	<19		100	19	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Bromodichloromethane	<17		100	17	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Bromoform	<22		100	22	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Bromomethane	<24		100	24	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Carbon tetrachloride	<13		50	13	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Chloroethane	<22		100	22	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Chloroform	<10		50	10	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Chloromethane	<23		100	23	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Dibromochloromethane	<17		100	17	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Dibromomethane	<24		100	24	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Ethylbenzene	<8.3		13	8.3	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Hexachlorobutadiene	<17		100	17	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Isopropylbenzene	<13		100	13	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Methylene Chloride	<34		250	34	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Naphthalene	<26		100	26	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
n-Butylbenzene	<8.5		50	8.5	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Styrene	<4.9	*	50	4.9	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
tert-Butylbenzene	<8.8		50	8.8	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Toluene	<5.8		13	5.8	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Trichloroethene	<9.3		25	9.3	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Trichlorofluoromethane	<21		100	21	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		08/11/15 00:00	08/18/15 15:19	50
Xylenes, Total	<3.4	*	25	3.4	ug/Kg		08/11/15 00:00	08/18/15 15:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*08/11/15 00:00*	*08/18/15 15:19*	*50*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*	*08/11/15 00:00*	*08/18/15 15:19*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*08/11/15 00:00*	*08/18/15 15:19*	*50*
Toluene-d8 (Surr)	*90*		*75 - 120*	*08/11/15 00:00*	*08/18/15 15:19*	*50*

Client Sample ID: Trip Blank

Date Collected: 08/11/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-35
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/11/15 00:00	08/18/15 15:46	50

Client Sample ID: Trip Blank
Date Collected: 08/11/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-35
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,1-Dichloroethane	<0.93		5.0	0.93	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,1-Dichloroethene	<1.5		5.0	1.5	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,1-Dichloropropene	<1.7		5.0	1.7	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2,3-Trichlorobenzene	<1.8		10.0	1.8	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2,3-Trichloropropane	<2.9		10.0	2.9	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2,4-Trichlorobenzene	<1.9		10.0	1.9	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2,4-Trimethylbenzene	<1.1		10.0	1.1	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2-Dibromo-3-Chloropropane	<4.4		10.0	4.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2-Dibromoethane	<1.6		10.0	1.6	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2-Dichlorobenzene	<1.0		10.0	1.0	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2-Dichloroethane	<1.4		5.0	1.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,2-Dichloropropane	<0.98		5.0	0.98	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,3,5-Trimethylbenzene	<1.0		10.0	1.0	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,3-Dichlorobenzene	<1.3		10.0	1.3	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,3-Dichloropropane	<0.67		5.0	0.67	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
1,4-Dichlorobenzene	<0.87		10.0	0.87	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
2,2-Dichloropropane	<1.6		5.0	1.6	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
2-Chlorotoluene	<1.0		5.0	1.0	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
4-Chlorotoluene	<0.99		6.0	0.99	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Benzene	<0.37		1.3	0.37	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Bromobenzene	<2.1		10.0	2.1	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Bromochloromethane	<1.9		10.0	1.9	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Bromodichloromethane	<1.7		10.0	1.7	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Bromoform	<2.2		10.0	2.2	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Bromomethane	<3.4		10.0	3.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Carbon tetrachloride	<1.3		5.0	1.3	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Chlorobenzene	<0.72		5.0	0.72	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Chloroethane	<2.2		10.0	2.2	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Chloroform	<1.0		5.0	1.0	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Chloromethane	<2.3		10.0	2.3	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
cis-1,2-Dichloroethene	<0.62		5.0	0.62	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
cis-1,3-Dichloropropene	<0.89		5.0	0.89	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Dibromochloromethane	<1.7		10.0	1.7	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Dibromomethane	<2.4		10.0	2.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Dichlorodifluoromethane	<2.6		10.0	2.6	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Ethylbenzene	<0.63		1.3	0.63	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Hexachlorobutadiene	<1.7		10.0	1.7	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Isopropyl ether	<0.74		10.0	0.74	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Isopropylbenzene	<1.3		10.0	1.3	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Methyl tert-butyl ether	<2.2		10.0	2.2	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Methylene Chloride	<3.4		25.0	3.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Naphthalene	<2.5		10.0	2.5	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
n-Butylbenzene	<0.65		5.0	0.65	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
N-Propylbenzene	<0.88		10.0	0.88	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
p-Isopropyltoluene	<0.93		10.0	0.93	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
sec-Butylbenzene	<0.77		5.0	0.77	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Client Sample ID: Trip Blank
Date Collected: 08/11/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-35
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<4.9	*	5.0	4.9	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
tert-Butylbenzene	<3.8		5.0	3.8	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Tetrachloroethene	<3.4		5.0	3.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Toluene	<5.8		10.0	5.8	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Trichloroethene	<0.93		2.5	0.93	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Trichlorofluoromethane	<2.1		10.0	2.1	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Vinyl chloride	<5.2		1.0	5.2	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0
Xylenes, Total	<3.4	*	2.5	3.4	ug/Kg		08/11/15 00:00	08/18/15 15:46	5.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*08/11/15 00:00*	*08/18/15 15:46*	*5.0*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*	*08/11/15 00:00*	*08/18/15 15:46*	*5.0*
Dibromofluoromethane	*96*		*75 - 120*	*08/11/15 00:00*	*08/18/15 15:46*	*5.0*
Toluene-d8 (Surr)	*89*		*75 - 120*	*08/11/15 00:00*	*08/18/15 15:46*	*5.0*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1	MS and/or MSD Recovery is outside acceptance limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 300128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-2	B-1 10-12	Total/NA	Solid	5035	
500-99817-4	B-2 10-12	Total/NA	Solid	5035	
500-99817-5	B-3 12-14	Total/NA	Solid	5035	
500-99817-6	B-4 8-10	Total/NA	Solid	5035	
500-99817-7	B-5 10-12	Total/NA	Solid	5035	
500-99817-8	B-6 12-14	Total/NA	Solid	5035	
500-99817-10	B-7 8-10	Total/NA	Solid	5035	
500-99817-11	B-8 0-2	Total/NA	Solid	5035	
500-99817-13	B-9 8-10	Total/NA	Solid	5035	
500-99817-15	B-10 0-4	Total/NA	Solid	5035	
500-99817-16	B-11 0-2	Total/NA	Solid	5035	
500-99817-17	B-12 8-10	Total/NA	Solid	5035	
500-99817-18	B-13 2-4	Total/NA	Solid	5035	
500-99817-19	B-14 8-10	Total/NA	Solid	5035	
500-99817-20	B-15 2-4	Total/NA	Solid	5035	
500-99817-21	B-16 2-4	Total/NA	Solid	5035	
500-99817-22	B-16 8-10	Total/NA	Solid	5035	
500-99817-23	B-19 6-8	Total/NA	Solid	5035	
500-99817-24	B-20 2-4	Total/NA	Solid	5035	
500-99817-25	B-21 6-8	Total/NA	Solid	5035	
500-99817-25 MS	B-21 6-8	Total/NA	Solid	5035	
500-99817-25 MSD	B-21 6-8	Total/NA	Solid	5035	
LB3 500-300128/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-300128/22-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 300129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-26	B-23 4-7	Total/NA	Solid	5035	
500-99817-27	B-24 2-4	Total/NA	Solid	5035	
500-99817-28	B-24 8-10	Total/NA	Solid	5035	
500-99817-30	B-31 2-4	Total/NA	Solid	5035	
500-99817-31	B-32 8-10	Total/NA	Solid	5035	
500-99817-32	B-33 0-2	Total/NA	Solid	5035	
500-99817-33	B-34 2-4	Total/NA	Solid	5035	
500-99817-34	Trip Blank	Total/NA	Solid	5035	
500-99817-35	Trip Blank	Total/NA	Solid	5035	
LB3 500-300129/19-A	Method Blank	Total/NA	Solid	5035	
LCS 500-300129/20-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 300423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-2	B-1 10-12	Total/NA	Solid	8260B	300128
500-99817-4	B-2 10-12	Total/NA	Solid	8260B	300128
500-99817-5	B-3 12-14	Total/NA	Solid	8260B	300128
500-99817-6	B-4 8-10	Total/NA	Solid	8260B	300128
500-99817-7	B-5 10-12	Total/NA	Solid	8260B	300128
500-99817-8	B-6 12-14	Total/NA	Solid	8260B	300128
LCS 500-300423/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-300423/6	Method Blank	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 300424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-26	B-23 4-7	Total/NA	Solid	8260B	300129
500-99817-27	B-24 2-4	Total/NA	Solid	8260B	300129
500-99817-28	B-24 8-10	Total/NA	Solid	8260B	300129
500-99817-30	B-31 2-4	Total/NA	Solid	8260B	300129
500-99817-31	B-32 8-10	Total/NA	Solid	8260B	300129
500-99817-32	B-33 0-2	Total/NA	Solid	8260B	300129
500-99817-33	B-34 2-4	Total/NA	Solid	8260B	300129
500-99817-34	Trip Blank	Total/NA	Solid	8260B	300129
500-99817-35	Trip Blank	Total/NA	Solid	8260B	300129
LCS 500-300424/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-300424/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 300473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-10	B-7 8-10	Total/NA	Solid	8260B	300128
500-99817-11	B-8 0-2	Total/NA	Solid	8260B	300128
500-99817-13	B-9 8-10	Total/NA	Solid	8260B	300128
500-99817-15	B-10 0-4	Total/NA	Solid	8260B	300128
500-99817-16	B-11 0-2	Total/NA	Solid	8260B	300128
500-99817-17	B-12 8-10	Total/NA	Solid	8260B	300128
500-99817-18	B-13 2-4	Total/NA	Solid	8260B	300128
500-99817-19	B-14 8-10	Total/NA	Solid	8260B	300128
500-99817-20	B-15 2-4	Total/NA	Solid	8260B	300128
500-99817-21	B-16 2-4	Total/NA	Solid	8260B	300128
500-99817-22	B-16 8-10	Total/NA	Solid	8260B	300128
500-99817-23	B-19 6-8	Total/NA	Solid	8260B	300128
500-99817-24	B-20 2-4	Total/NA	Solid	8260B	300128
500-99817-25	B-21 6-8	Total/NA	Solid	8260B	300128
500-99817-25 MS	B-21 6-8	Total/NA	Solid	8260B	300128
500-99817-25 MSD	B-21 6-8	Total/NA	Solid	8260B	300128
LB3 500-300128/21-A	Method Blank	Total/NA	Solid	8260B	300128
LCS 500-300128/22-A	Lab Control Sample	Total/NA	Solid	8260B	300128
LCS 500-300473/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-300473/8	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 300528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-300129/19-A	Method Blank	Total/NA	Solid	8260B	300129
LCS 500-300129/20-A	Lab Control Sample	Total/NA	Solid	8260B	300129
LCS 500-300528/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-300528/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-2	B-1 10-12	Total/NA	Solid	3541	
500-99817-4	B-2 10-12	Total/NA	Solid	3541	
500-99817-5	B-3 12-14	Total/NA	Solid	3541	
500-99817-6	B-4 8-10	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 300211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-7	B-5 10-12	Total/NA	Solid	3541	
500-99817-8	B-6 12-14	Total/NA	Solid	3541	
500-99817-10	B-7 8-10	Total/NA	Solid	3541	
LCS 500-300211/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-300211/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 300212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-11	B-8 0-2	Total/NA	Solid	3541	
500-99817-13	B-9 8-10	Total/NA	Solid	3541	
500-99817-13 MS	B-9 8-10	Total/NA	Solid	3541	
500-99817-13 MSD	B-9 8-10	Total/NA	Solid	3541	
500-99817-15	B-10 0-4	Total/NA	Solid	3541	
500-99817-16	B-11 0-2	Total/NA	Solid	3541	
500-99817-17	B-12 8-10	Total/NA	Solid	3541	
500-99817-18	B-13 2-4	Total/NA	Solid	3541	
500-99817-19	B-14 8-10	Total/NA	Solid	3541	
500-99817-20	B-15 2-4	Total/NA	Solid	3541	
500-99817-21	B-16 2-4	Total/NA	Solid	3541	
500-99817-22	B-16 8-10	Total/NA	Solid	3541	
500-99817-23	B-19 6-8	Total/NA	Solid	3541	
500-99817-24	B-20 2-4	Total/NA	Solid	3541	
500-99817-25	B-21 6-8	Total/NA	Solid	3541	
500-99817-26	B-23 4-7	Total/NA	Solid	3541	
500-99817-27	B-24 2-4	Total/NA	Solid	3541	
500-99817-28	B-24 8-10	Total/NA	Solid	3541	
500-99817-30	B-31 2-4	Total/NA	Solid	3541	
500-99817-31	B-32 8-10	Total/NA	Solid	3541	
500-99817-32	B-33 0-2	Total/NA	Solid	3541	
500-99817-33	B-34 2-4	Total/NA	Solid	3541	
LCS 500-300212/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-300212/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 300289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-13	B-9 8-10	Total/NA	Solid	8270D	300212
500-99817-13 MS	B-9 8-10	Total/NA	Solid	8270D	300212
500-99817-13 MSD	B-9 8-10	Total/NA	Solid	8270D	300212
500-99817-17	B-12 8-10	Total/NA	Solid	8270D	300212
500-99817-19	B-14 8-10	Total/NA	Solid	8270D	300212
500-99817-22	B-16 8-10	Total/NA	Solid	8270D	300212
500-99817-24	B-20 2-4	Total/NA	Solid	8270D	300212
500-99817-25	B-21 6-8	Total/NA	Solid	8270D	300212
500-99817-26	B-23 4-7	Total/NA	Solid	8270D	300212
500-99817-27	B-24 2-4	Total/NA	Solid	8270D	300212
500-99817-28	B-24 8-10	Total/NA	Solid	8270D	300212
500-99817-30	B-31 2-4	Total/NA	Solid	8270D	300212
500-99817-31	B-32 8-10	Total/NA	Solid	8270D	300212
500-99817-33	B-34 2-4	Total/NA	Solid	8270D	300212
LCS 500-300212/2-A	Lab Control Sample	Total/NA	Solid	8270D	300212
MB 500-300212/1-A	Method Blank	Total/NA	Solid	8270D	300212

Analysis Batch: 300394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-2	B-1 10-12	Total/NA	Solid	8270D	300211
500-99817-5	B-3 12-14	Total/NA	Solid	8270D	300211
500-99817-6	B-4 8-10	Total/NA	Solid	8270D	300211
500-99817-8	B-6 12-14	Total/NA	Solid	8270D	300211
500-99817-10	B-7 8-10	Total/NA	Solid	8270D	300211
500-99817-15	B-10 0-4	Total/NA	Solid	8270D	300212
500-99817-16	B-11 0-2	Total/NA	Solid	8270D	300212
500-99817-20	B-15 2-4	Total/NA	Solid	8270D	300212
500-99817-21	B-16 2-4	Total/NA	Solid	8270D	300212
500-99817-23	B-19 6-8	Total/NA	Solid	8270D	300212
500-99817-32	B-33 0-2	Total/NA	Solid	8270D	300212
LCS 500-300211/2-A	Lab Control Sample	Total/NA	Solid	8270D	300211
MB 500-300211/1-A	Method Blank	Total/NA	Solid	8270D	300211

Analysis Batch: 300416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-4	B-2 10-12	Total/NA	Solid	8270D	300211
500-99817-7	B-5 10-12	Total/NA	Solid	8270D	300211
500-99817-11	B-8 0-2	Total/NA	Solid	8270D	300212
500-99817-18	B-13 2-4	Total/NA	Solid	8270D	300212

GC Semi VOA

Prep Batch: 299928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-1	B-1 0-2	Total/NA	Solid	3541	
500-99817-3	B-2 0-2	Total/NA	Solid	3541	
500-99817-9	B-7 2-4	Total/NA	Solid	3541	
500-99817-11	B-8 0-2	Total/NA	Solid	3541	
500-99817-12	B-9 2-4	Total/NA	Solid	3541	
500-99817-14	B-10 0-2	Total/NA	Solid	3541	
500-99817-29	B-28 0-2	Total/NA	Solid	3541	
LCS 500-299928/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-299928/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 299952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-1	B-1 0-2	Total/NA	Solid	8082	299928
500-99817-3	B-2 0-2	Total/NA	Solid	8082	299928
500-99817-9	B-7 2-4	Total/NA	Solid	8082	299928
500-99817-11	B-8 0-2	Total/NA	Solid	8082	299928
500-99817-12	B-9 2-4	Total/NA	Solid	8082	299928
500-99817-14	B-10 0-2	Total/NA	Solid	8082	299928
500-99817-29	B-28 0-2	Total/NA	Solid	8082	299928
LCS 500-299928/3-A	Lab Control Sample	Total/NA	Solid	8082	299928
MB 500-299928/1-A	Method Blank	Total/NA	Solid	8082	299928

Metals

Prep Batch: 299941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-11	B-8 0-2	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 299941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-20	B-15 2-4	Total/NA	Solid	3050B	
500-99817-26	B-23 4-7	Total/NA	Solid	3050B	
500-99817-29	B-28 0-2	Total/NA	Solid	3050B	
500-99817-30	B-31 2-4	Total/NA	Solid	3050B	
LCS 500-299941/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-299941/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 300153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-11	B-8 0-2	Total/NA	Solid	6010B	299941
500-99817-20	B-15 2-4	Total/NA	Solid	6010B	299941
500-99817-26	B-23 4-7	Total/NA	Solid	6010B	299941
500-99817-29	B-28 0-2	Total/NA	Solid	6010B	299941
500-99817-30	B-31 2-4	Total/NA	Solid	6010B	299941
LCS 500-299941/2-A	Lab Control Sample	Total/NA	Solid	6010B	299941
MB 500-299941/1-A	Method Blank	Total/NA	Solid	6010B	299941

General Chemistry

Analysis Batch: 299892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-1	B-1 0-2	Total/NA	Solid	Moisture	
500-99817-2	B-1 10-12	Total/NA	Solid	Moisture	
500-99817-3	B-2 0-2	Total/NA	Solid	Moisture	
500-99817-4	B-2 10-12	Total/NA	Solid	Moisture	
500-99817-5	B-3 12-14	Total/NA	Solid	Moisture	
500-99817-6	B-4 8-10	Total/NA	Solid	Moisture	
500-99817-7	B-5 10-12	Total/NA	Solid	Moisture	
500-99817-8	B-6 12-14	Total/NA	Solid	Moisture	
500-99817-9	B-7 2-4	Total/NA	Solid	Moisture	
500-99817-10	B-7 8-10	Total/NA	Solid	Moisture	
500-99817-11	B-8 0-2	Total/NA	Solid	Moisture	

Analysis Batch: 299905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-12	B-9 2-4	Total/NA	Solid	Moisture	
500-99817-12 DU	B-9 2-4	Total/NA	Solid	Moisture	
500-99817-13	B-9 8-10	Total/NA	Solid	Moisture	
500-99817-14	B-10 0-2	Total/NA	Solid	Moisture	
500-99817-15	B-10 0-4	Total/NA	Solid	Moisture	
500-99817-16	B-11 0-2	Total/NA	Solid	Moisture	
500-99817-17	B-12 8-10	Total/NA	Solid	Moisture	
500-99817-18	B-13 2-4	Total/NA	Solid	Moisture	
500-99817-19	B-14 8-10	Total/NA	Solid	Moisture	
500-99817-20	B-15 2-4	Total/NA	Solid	Moisture	
500-99817-21	B-16 2-4	Total/NA	Solid	Moisture	
500-99817-22	B-16 8-10	Total/NA	Solid	Moisture	
500-99817-23	B-19 6-8	Total/NA	Solid	Moisture	
500-99817-24	B-20 2-4	Total/NA	Solid	Moisture	
500-99817-25	B-21 6-8	Total/NA	Solid	Moisture	

QC Association Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

General Chemistry (Continued)

Analysis Batch: 299905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-26	B-23 4-7	Total/NA	Solid	Moisture	
500-99817-27	B-24 2-4	Total/NA	Solid	Moisture	
500-99817-28	B-24 8-10	Total/NA	Solid	Moisture	
500-99817-29	B-28 0-2	Total/NA	Solid	Moisture	
500-99817-30	B-31 2-4	Total/NA	Solid	Moisture	
500-99817-31	B-32 8-10	Total/NA	Solid	Moisture	

Analysis Batch: 299916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99817-32	B-33 0-2	Total/NA	Solid	Moisture	
500-99817-32 DU	B-33 0-2	Total/NA	Solid	Moisture	
500-99817-33	B-34 2-4	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-99817-2	B-1 10-12	112	90	111	107
500-99817-4	B-2 10-12	112	90	112	107
500-99817-5	B-3 12-14	110	89	112	107
500-99817-6	B-4 8-10	111	89	113	107
500-99817-7	B-5 10-12	114	88	114	107
500-99817-8	B-6 12-14	113	88	113	107
500-99817-10	B-7 8-10	103	101	88	94
500-99817-11	B-8 0-2	114	104	88	96
500-99817-13	B-9 8-10	112	106	90	94
500-99817-15	B-10 0-4	111	108	89	95
500-99817-16	B-11 0-2	112	105	90	93
500-99817-17	B-12 8-10	111	107	91	94
500-99817-18	B-13 2-4	112	104	90	97
500-99817-19	B-14 8-10	115	105	91	94
500-99817-20	B-15 2-4	104	104	88	93
500-99817-21	B-16 2-4	104	105	87	95
500-99817-22	B-16 8-10	108	104	87	95
500-99817-23	B-19 6-8	109	108	89	98
500-99817-24	B-20 2-4	108	104	86	95
500-99817-25	B-21 6-8	107	105	88	96
500-99817-25 MS	B-21 6-8	106	98	91	99
500-99817-25 MSD	B-21 6-8	103	102	85	99
500-99817-26	B-23 4-7	100	92	94	90
500-99817-27	B-24 2-4	101	91	98	87
500-99817-28	B-24 8-10	101	88	99	88
500-99817-30	B-31 2-4	100	92	100	89
500-99817-31	B-32 8-10	103	90	101	87
500-99817-32	B-33 0-2	102	91	101	90
500-99817-33	B-34 2-4	104	94	99	89
500-99817-34	Trip Blank	96	90	98	90
500-99817-35	Trip Blank	101	91	95	89
LB3 500-300128/2*-A	Method Blank	103	105	87	94
LB3 500-300129/19-A	Method Blank	107	91	112	107
LCS 500-300128/22-A	Lab Control Sample	101	99	90	98
LCS 500-300129/20-A	Lab Control Sample	100	107	101	104
LCS 500-300423/4	Lab Control Sample	97	102	97	102
LCS 500-300424/4	Lab Control Sample	96	89	100	91
LCS 500-300473/5	Lab Control Sample	101	98	86	101
LCS 500-300528/4	Lab Control Sample	98	104	100	102
MB 500-300423/6	Method Blank	108	89	107	106
MB 500-300424/6	Method Blank	96	94	93	93
MB 500-300473/8	Method Blank	106	105	87	97
MB 500-300528/7	Method Blank	106	93	110	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (25-119)	NBZ (25-115)	TPH (36-134)
500-99817-2	B-1 10-12	89	90	109
500-99817-4	B-2 10-12	76	76	154 X
500-99817-5	B-3 12-14	100	101	113
500-99817-6	B-4 8-10	88	86	102
500-99817-7	B-5 10-12	95	69	140 X
500-99817-8	B-6 12-14	93	93	119
500-99817-10	B-7 8-10	105	105	139 X
500-99817-11	B-8 0-2	78	41	127
500-99817-13	B-9 8-10	93	82	106
500-99817-13 MS	B-9 8-10	86	90	151 X
500-99817-13 MSD	B-9 8-10	100	98	174 X
500-99817-15	B-10 0-4	101	99	155 X
500-99817-16	B-11 0-2	98	91	185 X
500-99817-17	B-12 8-10	75	81	99
500-99817-18	B-13 2-4	82	73	137 X
500-99817-19	B-14 8-10	89	77	96
500-99817-20	B-15 2-4	97	95	176 X
500-99817-21	B-16 2-4	79	70	183 X
500-99817-22	B-16 8-10	104	92	132
500-99817-23	B-19 6-8	48	41	92
500-99817-24	B-20 2-4	103	95	125
500-99817-25	B-21 6-8	88	87	111
500-99817-26	B-23 4-7	58	51	72
500-99817-27	B-24 2-4	67	64	94
500-99817-28	B-24 8-10	84	96	115
500-99817-30	B-31 2-4	87	89	108
500-99817-31	B-32 8-10	105	98	125
500-99817-32	B-33 0-2	93	90	178 X
500-99817-33	B-34 2-4	83	68	100
LCS 500-300211/2-A	Lab Control Sample	105	106	116
LCS 500-300212/2-A	Lab Control Sample	89	95	97
MB 500-300211/1-A	Method Blank	104	105	115
MB 500-300212/1-A	Method Blank	109	103	128

Surrogate Legend
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-99817-1	B-1 0-2	91	101
500-99817-3	B-2 0-2	72	90
500-99817-9	B-7 2-4	84	95
500-99817-11	B-8 0-2	35 X	83

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-99817-12	B-9 2-4	106	107
500-99817-14	B-10 0-2	96	91
500-99817-29	B-28 0-2	116	135
LCS 500-299928/3-A	Lab Control Sample	89	107
MB 500-299928/1-A	Method Blank	86	112

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-300128/21-A
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300128

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,1-Dichloroethene	<15		50	15	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,1-Dichloropropene	<17		50	17	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2-Dibromoethane	<16		100	16	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2-Dichloroethane	<14		50	14	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
2,2-Dichloropropane	<16		50	16	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
2-Chlorotoluene	<10		50	10	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Benzene	<3.7		13	3.7	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Bromobenzene	<21		100	21	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Bromochloromethane	<19		100	19	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Bromodichloromethane	<17		100	17	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Bromoform	<22		100	22	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Bromomethane	<34		100	34	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Carbon tetrachloride	<13		50	13	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Chloroethane	<22		100	22	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Chloroform	<10		50	10	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Chloromethane	<23		100	23	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Dibromochloromethane	<17		100	17	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Dibromomethane	<24		100	24	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Hexachlorobutadiene	<17		100	17	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Isopropylbenzene	<13		100	13	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Methylene Chloride	<34		250	34	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Naphthalene	<25		100	25	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		08/14/15 17:00	08/18/15 17:16	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-300128/21-A
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300128

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Styrene	<4.9		50	4.9	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
tert-Butylbenzene	<3.8		50	6.8	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Tetrachloroethene	<3.4		50	8.4	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Toluene	<5.8		13	5.8	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Trichloroethene	<9.3		25	9.3	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Trichlorofluoromethane	<21		100	21	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		08/14/15 17:00	08/18/15 17:16	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		08/14/15 17:00	08/18/15 17:16	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*08/14/15 17:00*	*08/18/15 17:16*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*08/14/15 17:00*	*08/18/15 17:16*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*08/14/15 17:00*	*08/18/15 17:16*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*08/14/15 17:00*	*08/18/15 17:16*	*50*

Lab Sample ID: LCS 500-300128/22-A
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2690		ug/Kg		108	70 - 124
1,1,1-Trichloroethane	2500	2570		ug/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	2500	3030		ug/Kg		121	68 - 133
1,1,2-Trichloroethane	2500	3020		ug/Kg		121	70 - 125
1,1-Dichloroethane	2500	3100		ug/Kg		124	70 - 127
1,1-Dichloroethene	2500	2350		ug/Kg		94	69 - 121
1,1-Dichloropropene	2500	2690		ug/Kg		108	70 - 126
1,2,3-Trichlorobenzene	2500	3330		ug/Kg		133	70 - 133
1,2,3-Trichloropropane	2500	3070		ug/Kg		123	53 - 139
1,2,4-Trichlorobenzene	2500	2980		ug/Kg		119	70 - 125
1,2,4-Trimethylbenzene	2500	2750		ug/Kg		110	70 - 127
1,2-Dibromo-3-Chloropropane	2500	2860		ug/Kg		114	59 - 139
1,2-Dibromoethane	2500	3090		ug/Kg		124	70 - 124
1,2-Dichlorobenzene	2500	2890		ug/Kg		116	70 - 123
1,2-Dichloroethane	2500	3180		ug/Kg		127	66 - 132
1,2-Dichloropropane	2500	3170		ug/Kg		127	70 - 127
1,3,5-Trimethylbenzene	2500	2790		ug/Kg		112	70 - 129
1,3-Dichlorobenzene	2500	2830		ug/Kg		113	70 - 122
1,3-Dichloropropane	2500	3030		ug/Kg		121	70 - 127
1,4-Dichlorobenzene	2500	2770		ug/Kg		111	70 - 120
2,2-Dichloropropane	2500	2370		ug/Kg		95	68 - 120
2-Chlorotoluene	2500	2720		ug/Kg		109	70 - 128
4-Chlorotoluene	2500	2770		ug/Kg		111	70 - 127
Benzene	2500	2580		ug/Kg		103	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300128/22-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 300473 — **Prep Batch: 300128**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2700		ug/Kg		108	70 - 129
Bromochloromethane	2500	2570		ug/Kg		103	70 - 121
Bromodichloromethane	2500	2760		ug/Kg		110	70 - 127
Bromoform	2500	3120		ug/Kg		125	70 - 135
Bromomethane	2500	2120		ug/Kg		85	30 - 170
Carbon tetrachloride	2500	2460		ug/Kg		98	70 - 136
Chlorobenzene	2500	2790		ug/Kg		111	70 - 120
Chloroethane	2500	2490		ug/Kg		99	40 - 150
Chloroform	2500	2600		ug/Kg		104	70 - 120
Chloromethane	2500	2910		ug/Kg		116	45 - 140
cis-1,2-Dichloroethene	2500	2610		ug/Kg		104	70 - 120
cis-1,3-Dichloropropene	2500	3060		ug/Kg		122	70 - 122
Dibromochloromethane	2500	2910		ug/Kg		116	70 - 120
Dibromomethane	2500	2710		ug/Kg		108	70 - 120
Dichlorodifluoromethane	2500	1610		ug/Kg		64	30 - 150
Ethylbenzene	2500	2800		ug/Kg		112	70 - 125
Hexachlorobutadiene	2500	3030		ug/Kg		121	70 - 138
Isopropylbenzene	2500	2730		ug/Kg		109	70 - 132
Methyl tert-butyl ether	2500	2700		ug/Kg		108	65 - 120
Methylene Chloride	2500	2310		ug/Kg		92	70 - 120
Naphthalene	2500	2860		ug/Kg		114	59 - 143
n-Butylbenzene	2500	2710		ug/Kg		108	70 - 129
N-Propylbenzene	2500	2700		ug/Kg		108	70 - 132
p-Isopropyltoluene	2500	2870		ug/Kg		115	70 - 133
sec-Butylbenzene	2500	2740		ug/Kg		109	70 - 134
Styrene	2500	2730		ug/Kg		109	70 - 120
tert-Butylbenzene	2500	2910		ug/Kg		117	70 - 137
Tetrachloroethene	2500	2890		ug/Kg		115	70 - 129
Toluene	2500	2760		ug/Kg		110	70 - 120
trans-1,2-Dichloroethene	2500	2490		ug/Kg		100	70 - 120
trans-1,3-Dichloropropene	2500	3160	*	ug/Kg		126	70 - 123
Trichloroethene	2500	2550		ug/Kg		106	70 - 122
Trichlorofluoromethane	2500	2560		ug/Kg		102	65 - 134
Vinyl chloride	2500	2700		ug/Kg		108	63 - 127
Xylenes, Total	5000	5490		ug/Kg		110	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*90*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-99817-25 MS — **Client Sample ID: B-21 6-8**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 300473 — **Prep Batch: 300128**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<42		6070	6100		ug/Kg		100	70 - 124

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-99817-25 MS — **Client Sample ID: B-21 6-8**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 300473 — **Prep Batch: 300128**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<24		6070	5530		ug/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	<28		6070	6920		ug/Kg		114	68 - 133
1,1,2-Trichloroethane	<34		6070	6840		ug/Kg		113	70 - 125
1,1-Dichloroethane	<22		6070	6600		ug/Kg		109	70 - 127
1,1-Dichloroethene	<37		6070	5090		ug/Kg		84	68 - 121
1,1-Dichloropropene	<42		6070	5690		ug/Kg		94	70 - 126
1,2,3-Trichlorobenzene	<43		6070	6980		ug/Kg		115	70 - 133
1,2,3-Trichloropropane	<70		6070	6800		ug/Kg		112	53 - 139
1,2,4-Trichlorobenzene	<48		6070	5920		ug/Kg		97	70 - 125
1,2,4-Trimethylbenzene	<28		6070	5910		ug/Kg		97	70 - 127
1,2-Dibromo-3-Chloropropane	<110		6070	6630		ug/Kg		109	59 - 139
1,2-Dibromoethane	<33		6070	6610		ug/Kg		109	70 - 124
1,2-Dichlorobenzene	<25		6070	6410		ug/Kg		106	70 - 123
1,2-Dichloroethane	<35		6070	6920		ug/Kg		114	66 - 132
1,2-Dichloropropane	<24		6070	6850		ug/Kg		113	70 - 127
1,3,5-Trimethylbenzene	<25		6070	5990		ug/Kg		99	70 - 129
1,3-Dichlorobenzene	<31		6070	6290		ug/Kg		104	70 - 122
1,3-Dichloropropane	<16		6070	6550		ug/Kg		108	70 - 127
1,4-Dichlorobenzene	<21		6070	6100		ug/Kg		100	70 - 120
2,2-Dichloropropane	<38		6070	5100		ug/Kg		84	68 - 120
2-Chlorotoluene	<25		6070	5910		ug/Kg		97	70 - 128
4-Chlorotoluene	<24		6070	5980		ug/Kg		98	70 - 127
Benzene	25	J	6070	5610		ug/Kg		92	70 - 120
Bromobenzene	<52		6070	6010		ug/Kg		99	70 - 129
Bromochloromethane	<46		6070	5660		ug/Kg		93	70 - 121
Bromodichloromethane	<41		6070	6030		ug/Kg		99	70 - 127
Bromoform	<54		6070	7000		ug/Kg		115	70 - 135
Bromomethane	<83		6070	4090		ug/Kg		67	30 - 170
Carbon tetrachloride	<31		6070	5280		ug/Kg		87	70 - 136
Chlorobenzene	<17		6070	6120		ug/Kg		101	70 - 120
Chloroethane	<53		6070	4250		ug/Kg		70	40 - 150
Chloroform	<25		6070	5720		ug/Kg		94	70 - 120
Chloromethane	<58		6070	5310		ug/Kg		87	45 - 140
cis-1,2-Dichloroethene	<15		6070	5760		ug/Kg		95	70 - 120
cis-1,3-Dichloropropene	<22		6070	6490		ug/Kg		107	70 - 122
Dibromochloromethane	<42		6070	6430		ug/Kg		106	70 - 120
Dibromomethane	<58		6070	5960		ug/Kg		98	70 - 120
Dichlorodifluoromethane	<62		6070	2370		ug/Kg		39	30 - 150
Ethylbenzene	<15		6070	6090		ug/Kg		100	70 - 125
Hexachlorobutadiene	<42		6070	6540		ug/Kg		108	70 - 138
Isopropylbenzene	<30		6070	5830		ug/Kg		96	70 - 132
Methyl tert-butyl ether	<52		6070	5630		ug/Kg		93	65 - 120
Methylene Chloride	<83		6070	4920		ug/Kg		81	70 - 120
Naphthalene	<60		6070	6310		ug/Kg		104	59 - 143
n-Butylbenzene	<18		6070	5700		ug/Kg		94	70 - 129
N-Propylbenzene	<21		6070	5840		ug/Kg		96	70 - 132
p-Isopropyltoluene	<22		6070	6300		ug/Kg		104	70 - 133
sec-Butylbenzene	<19		6070	5950		ug/Kg		98	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-99817-25 MS
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: B-21 6-8
Prep Type: Total/NA
Prep Batch: 300128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	<12		6070	6000		ug/Kg		99	70 - 120
tert-Butylbenzene	<17		6070	6200		ug/Kg		102	70 - 137
Tetrachloroethene	<20		6070	6170		ug/Kg		102	70 - 129
Toluene	38		6070	6000		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	<30		6070	5480		ug/Kg		90	70 - 123
trans-1,3-Dichloropropene	<25	*	6070	6480		ug/Kg		107	70 - 123
Trichloroethene	<23		6070	5530		ug/Kg		91	70 - 122
Trichlorofluoromethane	<50		6070	5480		ug/Kg		90	65 - 134
Vinyl chloride	<13		6070	5250		ug/Kg		87	63 - 127
Xylenes, Total	<8.3		12100	11900		ug/Kg		98	70 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		75 - 125
4-Bromofluorobenzene (Surr)	98		75 - 120
Dibromofluoromethane	91		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-99817-25 MSD
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: B-21 6-8
Prep Type: Total/NA
Prep Batch: 300128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<42		6070	6080		ug/Kg		100	70 - 124	1	30
1,1,1-Trichloroethane	<24		6070	5440		ug/Kg		90	70 - 125	2	30
1,1,2,2-Tetrachloroethane	<28		6070	7140		ug/Kg		118	68 - 133	3	30
1,1,2-Trichloroethane	<34		6070	6930		ug/Kg		114	70 - 125	1	30
1,1-Dichloroethane	<22		6070	6600		ug/Kg		109	70 - 127	0	30
1,1-Dichloroethene	<37		6070	5280		ug/Kg		87	68 - 121	4	30
1,1-Dichloropropene	<42		6070	5710		ug/Kg		94	70 - 126	0	30
1,2,3-Trichlorobenzene	<43		6070	7180		ug/Kg		118	70 - 133	3	30
1,2,3-Trichloropropane	<70		6070	7210		ug/Kg		119	53 - 139	6	30
1,2,4-Trichlorobenzene	<46		6070	6380		ug/Kg		105	70 - 125	7	30
1,2,4-Trimethylbenzene	<20		6070	6240		ug/Kg		103	70 - 127	5	30
1,2-Dibromo-3-Chloropropane	<110		6070	6530		ug/Kg		108	59 - 139	2	30
1,2-Dibromoethane	<38		6070	6680		ug/Kg		110	70 - 124	1	30
1,2-Dichlorobenzene	<25		6070	6600		ug/Kg		109	70 - 123	3	30
1,2-Dichloroethane	<35		6070	6920		ug/Kg		114	66 - 132	0	30
1,2-Dichloropropane	<24		6070	7070		ug/Kg		116	70 - 127	3	30
1,3,5-Trimethylbenzene	<25		6070	6310		ug/Kg		104	70 - 129	5	30
1,3-Dichlorobenzene	<31		6070	6350		ug/Kg		105	70 - 122	1	30
1,3-Dichloropropane	<16		6070	6720		ug/Kg		111	70 - 127	3	30
1,4-Dichlorobenzene	<21		6070	6350		ug/Kg		105	70 - 120	4	30
2,2-Dichloropropane	<38		6070	5030		ug/Kg		83	68 - 120	1	30
2-Chlorotoluene	<25		6070	6350		ug/Kg		105	70 - 128	7	30
4-Chlorotoluene	<24		6070	6310		ug/Kg		104	70 - 127	5	30
Benzene	25	J	6070	5660		ug/Kg		93	70 - 120	1	30
Bromobenzene	<52		6070	6310		ug/Kg		104	70 - 129	5	30
Bromochloromethane	<46		6070	5610		ug/Kg		92	70 - 121	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-99817-25 MSD
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: B-21 6-8
Prep Type: Total/NA
Prep Batch: 300128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	<41		6070	5890		ug/Kg		97	70 - 127	2	30
Bromoform	<54		6070	6860		ug/Kg		113	70 - 135	2	30
Bromomethane	<83		6070	4070		ug/Kg		67	30 - 170	0	30
Carbon tetrachloride	<31		6070	5300		ug/Kg		87	70 - 136	0	30
Chlorobenzene	<17		6070	6230		ug/Kg		103	70 - 120	2	30
Chloroethane	<53		6070	4810		ug/Kg		79	40 - 150	12	30
Chloroform	<25		6070	5770		ug/Kg		95	70 - 120	1	30
Chloromethane	<56		6070	4920		ug/Kg		81	45 - 140	8	30
cis-1,2-Dichloroethene	<15		6070	5670		ug/Kg		93	70 - 120	2	30
cis-1,3-Dichloropropene	<22		6070	6780		ug/Kg		112	70 - 122	4	30
Dibromochloromethane	<42		6070	6560		ug/Kg		108	70 - 120	2	30
Dibromomethane	<58		6070	5890		ug/Kg		97	70 - 120	1	30
Dichlorodifluoromethane	<62		6070	2080		ug/Kg		34	30 - 150	13	30
Ethylbenzene	<15		6070	6170		ug/Kg		102	70 - 125	1	30
Hexachlorobutadiene	<42		6070	6960		ug/Kg		115	70 - 138	6	30
Isopropylbenzene	<30		6070	6230		ug/Kg		103	70 - 132	7	30
Methyl tert-butyl ether	<52		6070	5680		ug/Kg		94	65 - 120	1	30
Methylene Chloride	<83		6070	4870		ug/Kg		80	70 - 120	1	30
Naphthalene	<60		6070	6720		ug/Kg		111	59 - 143	6	30
n-Butylbenzene	<16		6070	5950		ug/Kg		98	70 - 129	4	30
N-Propylbenzene	<21		6070	6180		ug/Kg		102	70 - 132	8	30
p-Isopropyltoluene	<22		6070	6460		ug/Kg		106	70 - 133	2	30
sec-Butylbenzene	<19		6070	6260		ug/Kg		103	70 - 134	5	30
Styrene	<12		6070	6260		ug/Kg		103	70 - 120	5	30
tert-Butylbenzene	<17		6070	6630		ug/Kg		109	70 - 137	7	30
Tetrachloroethene	<20		6070	6320		ug/Kg		104	70 - 129	2	30
Toluene	38		6070	6220		ug/Kg		102	70 - 120	4	30
trans-1,2-Dichloroethene	<30		6070	5450		ug/Kg		90	70 - 120	0	30
trans-1,3-Dichloropropene	<25	*	6070	7100		ug/Kg		117	70 - 123	9	30
Trichloroethene	<23		6070	5650		ug/Kg		93	70 - 122	2	30
Trichlorofluoromethane	<50		6070	4610		ug/Kg		76	65 - 134	17	30
Vinyl chloride	<13		6070	4670		ug/Kg		77	63 - 127	12	30
Xylenes, Total	<8.3		12100	12100		ug/Kg		100	70 - 120	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 125
4-Bromofluorobenzene (Surr)	102		75 - 120
Dibromofluoromethane	86		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: LB3 500-300129/19-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300129

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		08/14/15 17:00	08/19/15 03:19	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-300129/19-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300129

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<14		50	14	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,1-Dichloroethane	<9 3		50	9 3	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,1-Dichloroethene	<15		50	15	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,1-Dichloropropene	<17		50	17	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2-Dibromoethane	<16		100	16	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2-Dichloroethane	<14		50	14	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,2-Dichloropropane	<9 8		50	9 8	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,3-Dichloropropane	<6 7		50	6 7	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
1,4-Dichlorobenzene	<8 7		100	8 7	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
2,2-Dichloropropane	<16		50	16	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
2-Chlorotoluene	<10		50	10	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
4-Chlorotoluene	<9 9		50	9 9	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Benzene	<3 7		13	3 7	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Bromobenzene	<21		100	21	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Bromochloromethane	<19		100	19	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Bromodichloromethane	<17		100	17	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Bromoform	<22		100	22	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Bromomethane	<34		100	34	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Carbon tetrachloride	<13		50	13	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Chlorobenzene	<7 2		50	7 2	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Chloroethane	<22		100	22	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Chloroform	<10		50	10	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Chloromethane	<23		100	23	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
cis-1,2-Dichloroethene	<6 2		50	6 2	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
cis-1,3-Dichloropropene	<8 9		50	8 9	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Dibromochloromethane	<17		100	17	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Dibromomethane	<24		100	24	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Ethylbenzene	<6 3		13	6 3	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Hexachlorobutadiene	<17		100	17	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Isopropyl ether	<7 4		100	7 4	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Isopropylbenzene	<13		100	13	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Methylene Chloride	<34		250	34	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Naphthalene	<25		100	25	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
n-Butylbenzene	<6 5		50	6 5	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
N-Propylbenzene	<8 8		100	8 8	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
p-Isopropyltoluene	<9 3		100	9 3	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
sec-Butylbenzene	<7 7		50	7 7	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Styrene	<4 9		50	4 9	ug/Kg		08/14/15 17 00	08/19/15 03 19	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-300129/19-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300129

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<5 8		50	5 8	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Tetrachloroethene	<8 4		50	8 4	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Toluene	23 2		13	5 8	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Trichloroethene	<9 3		25	9 3	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Trichlorofluoromethane	<21		100	21	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Vinyl chloride	<5 2		13	5 2	ug/Kg		08/14/15 17 00	08/19/15 03 19	50
Xylenes, Total	<3 4		25	3 4	ug/Kg		08/14/15 17 00	08/19/15 03 19	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*08/14/15 17 00*	*08/19/15 03 19*	*50*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*	*08/14/15 17 00*	*08/19/15 03 19*	*50*
Dibromofluoromethane	*112*		*75 - 120*	*08/14/15 17 00*	*08/19/15 03 19*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/14/15 17 00*	*08/19/15 03 19*	*50*

Lab Sample ID: LCS 500-300129/20-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2740		ug/Kg		110	70 - 124
1,1,1-Trichloroethane	2500	2700		ug/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	2500	2640		ug/Kg		106	68 - 133
1,1,2-Trichloroethane	2500	2780		ug/Kg		111	70 - 125
1,1-Dichloroethane	2500	2790		ug/Kg		112	70 - 127
1,1-Dichloroethene	2500	2830		ug/Kg		113	68 - 121
1,1-Dichloropropene	2500	2930		ug/Kg		117	70 - 126
1,2,3-Trichlorobenzene	2500	2780		ug/Kg		111	70 - 133
1,2,3-Trichloropropane	2500	2630		ug/Kg		105	53 - 139
1,2,4-Trichlorobenzene	2500	2600		ug/Kg		104	70 - 125
1,2,4-Trimethylbenzene	2500	2990		ug/Kg		120	70 - 127
1,2-Dibromo-3-Chloropropane	2500	2650		ug/Kg		106	59 - 139
1,2-Dibromoethane	2500	2750		ug/Kg		110	70 - 124
1,2-Dichlorobenzene	2500	2660		ug/Kg		106	70 - 123
1,2-Dichloroethane	2500	2630		ug/Kg		105	66 - 132
1,2-Dichloropropane	2500	2840		ug/Kg		114	70 - 127
1,3,5-Trimethylbenzene	2500	2920		ug/Kg		119	70 - 129
1,3-Dichlorobenzene	2500	2670		ug/Kg		107	70 - 122
1,3-Dichloropropane	2500	2840		ug/Kg		114	70 - 127
1,4-Dichlorobenzene	2500	2620		ug/Kg		105	70 - 120
2,2-Dichloropropane	2500	2690		ug/Kg		108	68 - 120
2-Chlorotoluene	2500	2840		ug/Kg		114	70 - 128
4-Chlorotoluene	2500	2890		ug/Kg		115	70 - 127
Benzene	2500	2830		ug/Kg		113	70 - 120
Bromobenzene	2500	2620		ug/Kg		105	70 - 129
Bromochloromethane	2500	2770		ug/Kg		111	70 - 121
Bromodichloromethane	2500	2650		ug/Kg		106	70 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300129/20-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	2500	2710		ug/Kg		108	70 - 135
Bromomethane	2500	2200		ug/Kg		88	30 - 170
Carbon tetrachloride	2500	2730		ug/Kg		109	70 - 136
Chlorobenzene	2500	2730		ug/Kg		109	70 - 120
Chloroethane	2500	2620		ug/Kg		105	40 - 150
Chloroform	2500	2620		ug/Kg		105	70 - 120
Chloromethane	2500	2470		ug/Kg		99	45 - 140
cis-1,2-Dichloroethene	2500	2750		ug/Kg		110	70 - 120
cis-1,3-Dichloropropene	2500	2830		ug/Kg		113	70 - 122
Dibromochloromethane	2500	2710		ug/Kg		108	70 - 120
Dibromomethane	2500	2580		ug/Kg		103	70 - 120
Dichlorodifluoromethane	2500	1950		ug/Kg		78	30 - 150
Ethylbenzene	2500	2960		ug/Kg		118	70 - 125
Hexachlorobutadiene	2500	2700		ug/Kg		108	70 - 138
Isopropylbenzene	2500	2890		ug/Kg		116	70 - 132
Methyl tert-butyl ether	2500	2790		ug/Kg		112	65 - 120
Methylene Chloride	2500	2920		ug/Kg		117	70 - 120
Naphthalene	2500	2600		ug/Kg		104	59 - 143
n-Butylbenzene	2500	2970		ug/Kg		119	70 - 129
N-Propylbenzene	2500	2960		ug/Kg		118	70 - 132
p-Isopropyltoluene	2500	2920		ug/Kg		117	70 - 133
sec-Butylbenzene	2500	2970		ug/Kg		119	70 - 134
Styrene	2500	3070	*	ug/Kg		123	70 - 120
tert-Butylbenzene	2500	3020		ug/Kg		121	70 - 137
Tetrachloroethene	2500	2690		ug/Kg		107	70 - 129
Toluene	2500	2960		ug/Kg		119	70 - 120
trans-1,2-Dichloroethene	2500	2860		ug/Kg		115	70 - 120
trans-1,3-Dichloropropene	2500	2840		ug/Kg		114	70 - 123
Trichloroethene	2500	2830		ug/Kg		113	70 - 122
Trichlorofluoromethane	2500	2460		ug/Kg		98	65 - 134
Vinyl chloride	2500	2530		ug/Kg		101	63 - 127
Xylenes, Total	5000	6120	*	ug/Kg		122	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: MB 500-300423/6
Matrix: Solid
Analysis Batch: 300423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			08/18/15 11:30	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			08/18/15 11:30	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			08/18/15 11:30	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			08/18/15 11:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300423/6
Matrix: Solid
Analysis Batch: 300423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			08/18/15 11:30	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			08/18/15 11:30	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			08/18/15 11:30	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			08/18/15 11:30	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			08/18/15 11:30	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			08/18/15 11:30	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 11:30	1
1,2-Dibromo-3-Chloropropane	<0.67		2.0	0.67	ug/Kg			08/18/15 11:30	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			08/18/15 11:30	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 11:30	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			08/18/15 11:30	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			08/18/15 11:30	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 11:30	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			08/18/15 11:30	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			08/18/15 11:30	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			08/18/15 11:30	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			08/18/15 11:30	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			08/18/15 11:30	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			08/18/15 11:30	1
Benzene	<0.074		0.25	0.074	ug/Kg			08/18/15 11:30	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			08/18/15 11:30	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			08/18/15 11:30	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			08/18/15 11:30	1
Bromoform	<0.44		2.0	0.44	ug/Kg			08/18/15 11:30	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			08/18/15 11:30	1
Carbon tetrachloride	<0.25		1.0	0.25	ug/Kg			08/18/15 11:30	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			08/18/15 11:30	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			08/18/15 11:30	1
Chloroform	<0.21		1.0	0.21	ug/Kg			08/18/15 11:30	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			08/18/15 11:30	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			08/18/15 11:30	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			08/18/15 11:30	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			08/18/15 11:30	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			08/18/15 11:30	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			08/18/15 11:30	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			08/18/15 11:30	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			08/18/15 11:30	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			08/18/15 11:30	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			08/18/15 11:30	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			08/18/15 11:30	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			08/18/15 11:30	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			08/18/15 11:30	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			08/18/15 11:30	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			08/18/15 11:30	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			08/18/15 11:30	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			08/18/15 11:30	1
Styrene	<0.099		1.0	0.099	ug/Kg			08/18/15 11:30	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			08/18/15 11:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300423/6
Matrix: Solid
Analysis Batch: 300423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			08/18/15 11:30	1
Toluene	<0.12		0.25	0.12	ug/Kg			08/18/15 11:30	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			08/18/15 11:30	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			08/18/15 11:30	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			08/18/15 11:30	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			08/18/15 11:30	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			08/18/15 11:30	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			08/18/15 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125		08/18/15 11:30	1
4-Bromofluorobenzene (Surr)	89		75 - 120		08/18/15 11:30	1
Dibromofluoromethane	107		75 - 120		08/18/15 11:30	1
Toluene-d8 (Surr)	106		75 - 120		08/18/15 11:30	1

Lab Sample ID: LCS 500-300423/4
Matrix: Solid
Analysis Batch: 300423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	70 - 124
1,1,1-Trichloroethane	50.0	45.1		ug/Kg		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/Kg		94	68 - 133
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 125
1,1-Dichloroethane	50.0	46.1		ug/Kg		92	70 - 127
1,1-Dichloroethene	50.0	48.8		ug/Kg		98	68 - 121
1,1-Dichloropropene	50.0	49.7		ug/Kg		99	70 - 125
1,2,3-Trichlorobenzene	50.0	49.1		ug/Kg		98	70 - 133
1,2,3-Trichloropropane	50.0	47.7		ug/Kg		95	53 - 139
1,2,4-Trichlorobenzene	50.0	46.2		ug/Kg		92	70 - 125
1,2,4-Trimethylbenzene	50.0	53.9		ug/Kg		108	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	45.8		ug/Kg		92	59 - 139
1,2-Dibromoethane	50.0	46.6		ug/Kg		93	70 - 124
1,2-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 123
1,2-Dichloroethane	50.0	43.1		ug/Kg		86	66 - 132
1,2-Dichloropropane	50.0	46.6		ug/Kg		93	70 - 127
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 129
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 122
1,3-Dichloropropane	50.0	48.8		ug/Kg		98	70 - 127
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	70 - 120
2,2-Dichloropropane	50.0	45.4		ug/Kg		91	68 - 129
2-Chlorotoluene	50.0	52.2		ug/Kg		104	70 - 128
4-Chlorotoluene	50.0	52.3		ug/Kg		105	70 - 127
Benzene	50.0	47.2		ug/Kg		94	70 - 120
Bromobenzene	50.0	47.5		ug/Kg		95	70 - 129
Bromochloromethane	50.0	46.1		ug/Kg		92	70 - 121
Bromodichloromethane	50.0	43.6		ug/Kg		87	70 - 127
Bromoform	50.0	46.8		ug/Kg		94	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300423/4
Matrix: Solid
Analysis Batch: 300423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	41.1		ug/Kg		82	30 - 170
Carbon tetrachloride	50.0	46.5		ug/Kg		93	70 - 136
Chlorobenzene	50.0	48.0		ug/Kg		96	70 - 120
Chloroethane	50.0	48.5		ug/Kg		97	40 - 150
Chloroform	50.0	43.9		ug/Kg		88	70 - 120
Chloromethane	50.0	49.6		ug/Kg		99	45 - 140
cis-1,2-Dichloroethene	50.0	45.8		ug/Kg		92	70 - 120
cis-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	70 - 122
Dibromochloromethane	50.0	46.9		ug/Kg		94	70 - 120
Dibromomethane	50.0	42.6		ug/Kg		85	70 - 120
Dichlorodifluoromethane	50.0	47.3		ug/Kg		95	30 - 150
Ethylbenzene	50.0	52.4		ug/Kg		105	70 - 125
Hexachlorobutadiene	50.0	48.6		ug/Kg		97	70 - 138
Isopropylbenzene	50.0	53.3		ug/Kg		107	70 - 132
Methyl tert-butyl ether	50.0	45.7		ug/Kg		91	65 - 120
Methylene Chloride	50.0	48.5		ug/Kg		97	70 - 120
Naphthalene	50.0	46.8		ug/Kg		94	59 - 143
n-Butylbenzene	50.0	53.9		ug/Kg		108	70 - 129
N-Propylbenzene	50.0	54.2		ug/Kg		108	70 - 132
p-Isopropyltoluene	50.0	53.6		ug/Kg		107	70 - 133
sec-Butylbenzene	50.0	54.1		ug/Kg		108	70 - 134
Styrene	50.0	53.8		ug/Kg		108	70 - 120
tert-Butylbenzene	50.0	54.9		ug/Kg		110	70 - 137
Tetrachloroethene	50.0	47.7		ug/Kg		95	70 - 129
Toluene	50.0	48.8		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	70 - 120
trans-1,3-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 123
Trichloroethene	50.0	47.4		ug/Kg		95	70 - 122
Trichlorofluoromethane	50.0	45.1		ug/Kg		90	65 - 134
Vinyl chloride	50.0	49.1		ug/Kg		98	63 - 127
Xylenes, Total	100	107		ug/Kg		107	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
4-Bromofluorobenzene (Surr)	102		75 - 120
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-300424/6
Matrix: Solid
Analysis Batch: 300424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			08/18/15 14:51	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			08/18/15 14:51	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			08/18/15 14:51	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			08/18/15 14:51	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			08/18/15 14:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300424/6
Matrix: Solid
Analysis Batch: 300424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			08/18/15 14:51	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			08/18/15 14:51	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			08/18/15 14:51	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			08/18/15 14:51	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			08/18/15 14:51	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 14:51	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			08/18/15 14:51	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			08/18/15 14:51	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 14:51	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			08/18/15 14:51	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			08/18/15 14:51	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 14:51	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			08/18/15 14:51	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			08/18/15 14:51	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			08/18/15 14:51	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			08/18/15 14:51	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			08/18/15 14:51	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			08/18/15 14:51	1
Benzene	<0.074		0.25	0.074	ug/Kg			08/18/15 14:51	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			08/18/15 14:51	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			08/18/15 14:51	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			08/18/15 14:51	1
Bromoform	<0.44		2.0	0.44	ug/Kg			08/18/15 14:51	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			08/18/15 14:51	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			08/18/15 14:51	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			08/18/15 14:51	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			08/18/15 14:51	1
Chloroform	<0.21		1.0	0.21	ug/Kg			08/18/15 14:51	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			08/18/15 14:51	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			08/18/15 14:51	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			08/18/15 14:51	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			08/18/15 14:51	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			08/18/15 14:51	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			08/18/15 14:51	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			08/18/15 14:51	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			08/18/15 14:51	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			08/18/15 14:51	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			08/18/15 14:51	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			08/18/15 14:51	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			08/18/15 14:51	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			08/18/15 14:51	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			08/18/15 14:51	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			08/18/15 14:51	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			08/18/15 14:51	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			08/18/15 14:51	1
Styrene	<0.099		1.0	0.099	ug/Kg			08/18/15 14:51	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			08/18/15 14:51	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			08/18/15 14:51	1

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300424/6
Matrix: Solid
Analysis Batch: 300424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.12		0.25	0.12	ug/Kg			08/18/15 14:51	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			08/18/15 14:51	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			08/18/15 14:51	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			08/18/15 14:51	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			08/18/15 14:51	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			08/18/15 14:51	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			08/18/15 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*		*08/18/15 14:51*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*08/18/15 14:51*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/18/15 14:51*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*08/18/15 14:51*	*1*

Lab Sample ID: LCS 500-300424/4
Matrix: Solid
Analysis Batch: 300424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	70 - 124
1,1,1-Trichloroethane	50.0	43.9		ug/Kg		88	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/Kg		96	68 - 133
1,1,2-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 125
1,1-Dichloroethane	50.0	47.0		ug/Kg		94	70 - 127
1,1-Dichloroethene	50.0	46.7		ug/Kg		93	68 - 121
1,1-Dichloropropene	50.0	45.0		ug/Kg		90	70 - 126
1,2,3-Trichlorobenzene	50.0	47.8		ug/Kg		96	70 - 133
1,2,3-Trichloropropane	50.0	43.7		ug/Kg		87	53 - 139
1,2,4-Trichlorobenzene	50.0	46.1		ug/Kg		92	70 - 125
1,2,4-Trimethylbenzene	50.0	46.9		ug/Kg		94	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	42.3		ug/Kg		85	59 - 139
1,2-Dibromoethane	50.0	51.3		ug/Kg		103	70 - 124
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 123
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	66 - 132
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	70 - 127
1,3,5-Trimethylbenzene	50.0	46.6		ug/Kg		93	70 - 129
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 122
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	70 - 127
1,4-Dichlorobenzene	50.0	48.8		ug/Kg		98	70 - 120
2,2-Dichloropropane	50.0	41.3		ug/Kg		83	68 - 120
2-Chlorotoluene	50.0	43.6		ug/Kg		87	70 - 128
4-Chlorotoluene	50.0	44.7		ug/Kg		89	70 - 127
Benzene	50.0	45.8		ug/Kg		92	70 - 120
Bromobenzene	50.0	49.2		ug/Kg		98	70 - 129
Bromochloromethane	50.0	52.4		ug/Kg		105	70 - 121
Bromodichloromethane	50.0	41.5		ug/Kg		83	70 - 127
Bromoform	50.0	42.8		ug/Kg		86	70 - 135
Bromomethane	50.0	42.4		ug/Kg		85	30 - 170

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300424/4
Matrix: Solid
Analysis Batch: 300424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	44.9		ug/Kg		90	70 - 135
Chlorobenzene	50.0	48.3		ug/Kg		97	70 - 120
Chloroethane	50.0	47.6		ug/Kg		95	40 - 150
Chloroform	50.0	46.0		ug/Kg		92	70 - 120
Chloromethane	50.0	44.1		ug/Kg		88	45 - 140
cis-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	70 - 120
cis-1,3-Dichloropropene	50.0	44.3		ug/Kg		89	70 - 122
Dibromochloromethane	50.0	48.3		ug/Kg		97	70 - 120
Dibromomethane	50.0	49.7		ug/Kg		99	70 - 120
Dichlorodifluoromethane	50.0	41.7		ug/Kg		83	30 - 150
Ethylbenzene	50.0	46.7		ug/Kg		93	70 - 125
Hexachlorobutadiene	50.0	42.1		ug/Kg		84	70 - 133
Isopropylbenzene	50.0	45.9		ug/Kg		92	70 - 132
Methyl tert-butyl ether	50.0	47.6		ug/Kg		95	65 - 120
Methylene Chloride	50.0	42.9		ug/Kg		86	70 - 120
Naphthalene	50.0	51.0		ug/Kg		102	59 - 143
n-Butylbenzene	50.0	42.9		ug/Kg		86	70 - 129
N-Propylbenzene	50.0	43.9		ug/Kg		88	70 - 132
p-Isopropyltoluene	50.0	48.9		ug/Kg		98	70 - 133
sec-Butylbenzene	50.0	45.6		ug/Kg		91	70 - 134
Styrene	50.0	49.1		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 137
Tetrachloroethene	50.0	46.2		ug/Kg		92	70 - 129
Toluene	50.0	44.1		ug/Kg		88	70 - 120
trans-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 120
trans-1,3-Dichloropropene	50.0	44.1		ug/Kg		88	70 - 123
Trichloroethene	50.0	53.7		ug/Kg		107	70 - 122
Trichlorofluoromethane	50.0	45.8		ug/Kg		92	65 - 134
Vinyl chloride	50.0	46.6		ug/Kg		93	60 - 127
Xylenes, Total	100	88.9		ug/Kg		89	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
4-Bromofluorobenzene (Surr)	89		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	91		75 - 120

Lab Sample ID: MB 500-300473/8
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			08/18/15 16:51	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			08/18/15 16:51	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			08/18/15 16:51	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			08/18/15 16:51	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			08/18/15 16:51	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			08/18/15 16:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300473/8
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			08/18/15 15:51	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			08/18/15 15:51	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			08/18/15 15:51	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			08/18/15 15:51	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 15:51	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			08/18/15 15:51	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			08/18/15 15:51	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 15:51	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			08/18/15 15:51	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			08/18/15 15:51	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/18/15 15:51	1
1,3-Dichlorobenzene	<0.25		2.0	0.25	ug/Kg			08/18/15 15:51	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			08/18/15 15:51	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			08/18/15 15:51	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			08/18/15 15:51	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			08/18/15 15:51	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			08/18/15 15:51	1
Benzene	<0.074		0.25	0.074	ug/Kg			08/18/15 15:51	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			08/18/15 15:51	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			08/18/15 15:51	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			08/18/15 15:51	1
Bromoform	<0.44		2.0	0.44	ug/Kg			08/18/15 15:51	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			08/18/15 15:51	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			08/18/15 15:51	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			08/18/15 15:51	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			08/18/15 15:51	1
Chloroform	<0.21		1.0	0.21	ug/Kg			08/18/15 15:51	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			08/18/15 15:51	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			08/18/15 15:51	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			08/18/15 15:51	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			08/18/15 15:51	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			08/18/15 15:51	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			08/18/15 15:51	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			08/18/15 15:51	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			08/18/15 15:51	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			08/18/15 15:51	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			08/18/15 15:51	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			08/18/15 15:51	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			08/18/15 15:51	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			08/18/15 15:51	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			08/18/15 15:51	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			08/18/15 15:51	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			08/18/15 15:51	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			08/18/15 15:51	1
Styrene	<0.099		1.0	0.099	ug/Kg			08/18/15 15:51	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			08/18/15 15:51	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			08/18/15 15:51	1
Toluene	<0.12		0.25	0.12	ug/Kg			08/18/15 15:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300473/8
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			08/18/15 16:51	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			08/18/15 16:51	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			08/18/15 16:51	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			08/18/15 16:51	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			08/18/15 16:51	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			08/18/15 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125		08/18/15 16:51	1
4-Bromofluorobenzene (Surr)	105		75 - 120		08/18/15 16:51	1
Dibromofluoromethane	87		75 - 120		08/18/15 16:51	1
Toluene-d8 (Surr)	97		75 - 120		08/18/15 16:51	1

Lab Sample ID: LCS 500-300473/5
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.6		ug/Kg		109	70 - 124
1,1,1-Trichloroethane	50.0	51.6		ug/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	50.0	58.3		ug/Kg		117	68 - 133
1,1,2-Trichloroethane	50.0	59.6		ug/Kg		119	70 - 125
1,1-Dichloroethane	50.0	61.0		ug/Kg		122	70 - 127
1,1-Dichloroethene	50.0	47.5		ug/Kg		95	68 - 121
1,1-Dichloropropene	50.0	54.3		ug/Kg		109	70 - 126
1,2,3-Trichlorobenzene	50.0	64.7		ug/Kg		129	70 - 133
1,2,3-Trichloropropane	50.0	59.4		ug/Kg		119	53 - 139
1,2,4-Trichlorobenzene	50.0	62.2		ug/Kg		124	70 - 125
1,2,4-Trimethylbenzene	50.0	56.0		ug/Kg		112	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	58.7		ug/Kg		117	53 - 139
1,2-Dibromoethane	50.0	61.1		ug/Kg		122	70 - 124
1,2-Dichlorobenzene	50.0	58.3		ug/Kg		117	70 - 123
1,2-Dichloroethane	50.0	61.5		ug/Kg		123	68 - 132
1,2-Dichloropropane	50.0	62.1		ug/Kg		124	70 - 127
1,3,5-Trimethylbenzene	50.0	56.9		ug/Kg		114	70 - 129
1,3-Dichlorobenzene	50.0	58.4		ug/Kg		117	70 - 122
1,3-Dichloropropane	50.0	58.9		ug/Kg		118	70 - 127
1,4-Dichlorobenzene	50.0	56.8		ug/Kg		114	70 - 120
2,2-Dichloropropane	50.0	48.9		ug/Kg		98	68 - 129
2-Chlorotoluene	50.0	54.8		ug/Kg		110	70 - 128
4-Chlorotoluene	50.0	55.7		ug/Kg		111	70 - 127
Benzene	50.0	50.6		ug/Kg		101	70 - 120
Bromobenzene	50.0	54.8		ug/Kg		110	70 - 129
Bromochloromethane	50.0	50.1		ug/Kg		100	70 - 121
Bromodichloromethane	50.0	52.8		ug/Kg		106	70 - 127
Bromoform	50.0	61.1		ug/Kg		122	70 - 135
Bromomethane	50.0	31.3		ug/Kg		63	30 - 170
Carbon tetrachloride	50.0	50.3		ug/Kg		101	70 - 136

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99817-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300473/5
Matrix: Solid
Analysis Batch: 300473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	50.0	55.9		ug/Kg		112	70 - 120
Chloroethane	50.0	41.7		ug/Kg		83	40 - 150
Chloroform	50.0	52.4		ug/Kg		105	70 - 120
Chloromethane	50.0	41.3		ug/Kg		83	45 - 140
cis-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	70 - 120
cis-1,3-Dichloropropene	50.0	60.9		ug/Kg		122	70 - 122
Dibromochloromethane	50.0	57.3		ug/Kg		115	70 - 120
Dibromomethane	50.0	51.3		ug/Kg		103	70 - 120
Dichlorodifluoromethane	50.0	17.0		ug/Kg		34	30 - 150
Ethylbenzene	50.0	58.7		ug/Kg		117	70 - 125
Hexachlorobutadiene	50.0	65.4		ug/Kg		131	70 - 138
Isopropylbenzene	50.0	55.3		ug/Kg		111	70 - 132
Methyl tert-butyl ether	50.0	50.8		ug/Kg		102	65 - 120
Methylene Chloride	50.0	44.5		ug/Kg		89	70 - 120
Naphthalene	50.0	56.2		ug/Kg		112	59 - 143
n-Butylbenzene	50.0	58.2		ug/Kg		116	70 - 129
N-Propylbenzene	50.0	55.5		ug/Kg		111	70 - 132
p-Isopropyltoluene	50.0	60.7		ug/Kg		121	70 - 133
sec-Butylbenzene	50.0	56.4		ug/Kg		113	70 - 134
Styrene	50.0	55.7		ug/Kg		111	70 - 120
tert-Butylbenzene	50.0	59.2		ug/Kg		118	70 - 137
Tetrachloroethene	50.0	61.1		ug/Kg		122	70 - 129
Toluene	50.0	56.4		ug/Kg		113	70 - 120
trans-1,2-Dichloroethene	50.0	50.8		ug/Kg		102	70 - 120
trans-1,3-Dichloropropene	50.0	62.1	*	ug/Kg		124	70 - 123
Trichloroethene	50.0	52.7		ug/Kg		105	70 - 122
Trichlorofluoromethane	50.0	40.6		ug/Kg		81	65 - 134
Vinyl chloride	50.0	39.3		ug/Kg		79	63 - 127
Xylenes, Total	100	114		ug/Kg		114	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	98		75 - 120
Dibromofluoromethane	86		75 - 120
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			08/19/15 03:05	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			08/19/15 03:05	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			08/19/15 03:05	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			08/19/15 03:05	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			08/19/15 03:05	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			08/19/15 03:05	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			08/19/15 03:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			08/19/15 00:05	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			08/19/15 00:05	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			08/19/15 00:05	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			08/19/15 00:05	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			08/19/15 00:05	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,3-Dichlorobenzene	<0.25		2.0	0.25	ug/Kg			08/19/15 00:05	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			08/19/15 00:05	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			08/19/15 00:05	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			08/19/15 00:05	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
Benzene	<0.074		0.25	0.074	ug/Kg			08/19/15 00:05	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			08/19/15 00:05	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			08/19/15 00:05	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			08/19/15 00:05	1
Bromoform	<0.44		2.0	0.44	ug/Kg			08/19/15 00:05	1
Bromomethane	<0.65		2.0	0.65	ug/Kg			08/19/15 00:05	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			08/19/15 00:05	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			08/19/15 00:05	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			08/19/15 00:05	1
Chloroform	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			08/19/15 00:05	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			08/19/15 00:05	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			08/19/15 00:05	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			08/19/15 00:05	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			08/19/15 00:05	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			08/19/15 00:05	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			08/19/15 00:05	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			08/19/15 00:05	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			08/19/15 00:05	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			08/19/15 00:05	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			08/19/15 00:05	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			08/19/15 00:05	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			08/19/15 00:05	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			08/19/15 00:05	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			08/19/15 00:05	1
Styrene	<0.099		1.0	0.099	ug/Kg			08/19/15 00:05	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			08/19/15 00:05	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			08/19/15 00:05	1
Toluene	<0.12		0.25	0.12	ug/Kg			08/19/15 00:05	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			08/19/15 00:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			08/19/15 00:05	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			08/19/15 00:05	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			08/19/15 00:05	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			08/19/15 00:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*		*08/19/15 00:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*08/19/15 00:05*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*08/19/15 00:05*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/19/15 00:05*	*1*

Lab Sample ID: LCS 500-300528/4
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	43.2		ug/Kg		86	70 - 124
1,1,1-Trichloroethane	50.0	37.1		ug/Kg		74	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	68 - 133
1,1,2-Trichloroethane	50.0	43.3		ug/Kg		87	70 - 125
1,1-Dichloroethane	50.0	38.9		ug/Kg		78	70 - 127
1,1-Dichloroethene	50.0	36.8		ug/Kg		74	68 - 121
1,1-Dichloropropene	50.0	39.5		ug/Kg		79	70 - 126
1,2,3-Trichlorobenzene	50.0	45.3		ug/Kg		91	70 - 133
1,2,3-Trichloropropane	50.0	44.8		ug/Kg		90	53 - 139
1,2,4-Trichlorobenzene	50.0	41.9		ug/Kg		84	70 - 125
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/Kg		87	50 - 139
1,2-Dibromoethane	50.0	41.6		ug/Kg		83	70 - 124
1,2-Dichlorobenzene	50.0	43.9		ug/Kg		88	70 - 123
1,2-Dichloroethane	50.0	37.3		ug/Kg		75	66 - 132
1,2-Dichloropropane	50.0	40.5		ug/Kg		81	70 - 127
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 129
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	70 - 122
1,3-Dichloropropane	50.0	43.2		ug/Kg		86	70 - 127
1,4-Dichlorobenzene	50.0	43.1		ug/Kg		86	70 - 120
2,2-Dichloropropane	50.0	37.0		ug/Kg		74	68 - 120
2-Chlorotoluene	50.0	46.0		ug/Kg		92	70 - 128
4-Chlorotoluene	50.0	46.2		ug/Kg		92	70 - 127
Benzene	50.0	39.6		ug/Kg		79	70 - 120
Bromobenzene	50.0	42.5		ug/Kg		85	70 - 129
Bromochloromethane	50.0	39.6		ug/Kg		79	70 - 121
Bromodichloromethane	50.0	38.8		ug/Kg		78	70 - 127
Bromoform	50.0	44.1		ug/Kg		88	70 - 135
Bromomethane	50.0	35.8		ug/Kg		72	30 - 170
Carbon tetrachloride	50.0	36.8		ug/Kg		74	70 - 136
Chlorobenzene	50.0	41.7		ug/Kg		83	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300528/4
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	43.1		ug/Kg		86	40 - 150
Chloroform	50.0	37.1		ug/Kg		74	70 - 120
Chloromethane	50.0	44.2		ug/Kg		88	45 - 140
cis-1,2-Dichloroethene	50.0	38.5		ug/Kg		77	70 - 120
cis-1,3-Dichloropropene	50.0	40.4		ug/Kg		81	70 - 122
Dibromochloromethane	50.0	42.6		ug/Kg		85	70 - 120
Dibromomethane	50.0	37.7		ug/Kg		75	70 - 120
Dichlorodifluoromethane	50.0	41.6		ug/Kg		83	30 - 150
Ethylbenzene	50.0	44.5		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	40.1		ug/Kg		80	70 - 138
Isopropylbenzene	50.0	44.5		ug/Kg		89	70 - 132
Methyl tert-butyl ether	50.0	37.9		ug/Kg		76	65 - 120
Methylene Chloride	50.0	40.7		ug/Kg		81	70 - 120
Naphthalene	50.0	43.1		ug/Kg		86	59 - 143
n-Butylbenzene	50.0	45.3		ug/Kg		91	70 - 129
N-Propylbenzene	50.0	46.1		ug/Kg		92	70 - 132
p-Isopropyltoluene	50.0	45.0		ug/Kg		90	70 - 133
sec-Butylbenzene	50.0	45.7		ug/Kg		91	70 - 134
Styrene	50.0	47.7		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	46.8		ug/Kg		94	70 - 137
Tetrachloroethene	50.0	38.5		ug/Kg		77	70 - 129
Toluene	50.0	41.8		ug/Kg		84	70 - 120
trans-1,2-Dichloroethene	50.0	38.5		ug/Kg		77	70 - 120
trans-1,3-Dichloropropene	50.0	42.5		ug/Kg		85	70 - 123
Trichloroethene	50.0	39.4		ug/Kg		79	70 - 122
Trichlorofluoromethane	50.0	39.6		ug/Kg		79	65 - 134
Vinyl chloride	50.0	43.6		ug/Kg		87	63 - 127
Xylenes, Total	100	92.3		ug/Kg		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-300211/1-A
Matrix: Solid
Analysis Batch: 300394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
2-Methylnaphthalene	<6.1		33	6.1	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Acenaphthene	<6.0		33	6.0	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Anthracene	<5.6		33	5.6	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/16/15 19:20	08/18/15 03:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300211/1-A
Matrix: Solid
Analysis Batch: 300394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<5.4		33	6.4	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Chrysene	<9.1		33	9.1	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Dibenz(a,h)anthracene	<5.4		33	6.4	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Fluoranthene	<5.2		33	6.2	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Fluorene	<4.7		33	4.7	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Indeno[1,2,3-cd]pyrene	<5.6		33	8.6	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/16/15 19:20	08/18/15 03:25	1
Pyrene	<5.6		33	6.6	ug/Kg		08/16/15 19:20	08/18/15 03:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*25 - 119*	*08/16/15 19:20*	*08/18/15 03:25*	*1*
Nitrobenzene-d5 (Surr)	*105*		*25 - 115*	*08/16/15 19:20*	*08/18/15 03:25*	*1*
Terphenyl-d14 (Surr)	*115*		*36 - 134*	*08/16/15 19:20*	*08/18/15 03:25*	*1*

Lab Sample ID: LCS 500-300211/2-A
Matrix: Solid
Analysis Batch: 300394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1400		ug/Kg		105	50 - 110
2-Methylnaphthalene	1330	1380		ug/Kg		103	48 - 110
Acenaphthene	1330	1300		ug/Kg		98	46 - 110
Acenaphthylene	1330	1420		ug/Kg		106	49 - 110
Anthracene	1330	1430		ug/Kg		107	48 - 118
Benzo[a]anthracene	1330	1450		ug/Kg		109	49 - 121
Benzo[a]pyrene	1330	1490		ug/Kg		112	53 - 122
Benzo[b]fluoranthene	1330	1450		ug/Kg		109	54 - 122
Benzo[g,h,i]perylene	1330	1470		ug/Kg		110	52 - 125
Benzo[k]fluoranthene	1330	1490		ug/Kg		112	44 - 137
Chrysene	1330	1520		ug/Kg		114	45 - 118
Dibenz(a,h)anthracene	1330	1480		ug/Kg		111	48 - 134
Fluoranthene	1330	1440		ug/Kg		108	48 - 128
Fluorene	1330	1420		ug/Kg		106	47 - 121
Indeno[1,2,3-cd]pyrene	1330	1490		ug/Kg		112	49 - 132
Naphthalene	1330	1380		ug/Kg		104	48 - 110
Phenanthrene	1330	1440		ug/Kg		108	48 - 121
Pyrene	1330	1470		ug/Kg		110	46 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*105*		*25 - 119*
Nitrobenzene-d5 (Surr)	*106*		*25 - 115*
Terphenyl-d14 (Surr)	*116*		*36 - 134*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300212/1-A
Matrix: Solid
Analysis Batch: 300289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
2-Methylnaphthalene	<6.1		33	6.1	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Acenaphthene	<6.0		33	6.0	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Anthracene	<5.6		33	5.6	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Chrysene	<9.1		33	9.1	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Fluorene	<4.7		33	4.7	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/16/15 19:34	08/17/15 13:36	1
Pyrene	<6.6		33	6.6	ug/Kg		08/16/15 19:34	08/17/15 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		25 - 119	08/16/15 19:34	08/17/15 13:36	1
Nitrobenzene-d5 (Surr)	103		25 - 115	08/16/15 19:34	08/17/15 13:36	1
Terphenyl-d14 (Surr)	128		36 - 134	08/16/15 19:34	08/17/15 13:36	1

Lab Sample ID: LCS 500-300212/2-A
Matrix: Solid
Analysis Batch: 300289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1400		ug/Kg		105	50 - 110
2-Methylnaphthalene	1330	1410		ug/Kg		106	48 - 110
Acenaphthene	1330	1340		ug/Kg		101	46 - 110
Acenaphthylene	1330	1370		ug/Kg		103	49 - 110
Anthracene	1330	1270		ug/Kg		95	48 - 118
Benzo[a]anthracene	1330	1370		ug/Kg		103	49 - 121
Benzo[a]pyrene	1330	1290		ug/Kg		97	53 - 122
Benzo[b]fluoranthene	1330	1260		ug/Kg		95	54 - 122
Benzo[g,h,i]perylene	1330	1400		ug/Kg		105	52 - 125
Benzo[k]fluoranthene	1330	1380		ug/Kg		104	44 - 137
Chrysene	1330	1350		ug/Kg		101	45 - 118
Dibenz(a,h)anthracene	1330	1540		ug/Kg		116	48 - 134
Fluoranthene	1330	1340		ug/Kg		100	48 - 128
Fluorene	1330	1310		ug/Kg		98	47 - 121
Indeno[1,2,3-cd]pyrene	1330	1410		ug/Kg		106	49 - 132
Naphthalene	1330	1340		ug/Kg		100	48 - 110
Phenanthrene	1330	1320		ug/Kg		99	48 - 121
Pyrene	1330	1290		ug/Kg		96	45 - 114

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300212/2-A
Matrix: Solid
Analysis Batch: 300289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300212

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	89		25 - 119
Nitrobenzene-d5 (Surr)	95		25 - 115
Terphenyl-d14 (Surr)	97		36 - 134

Lab Sample ID: 500-99817-13 MS
Matrix: Solid
Analysis Batch: 300289

Client Sample ID: B-9 8-10
Prep Type: Total/NA
Prep Batch: 300212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<8.5		1390	1260		ug/Kg	☼	91	50 - 110
2-Methylnaphthalene	<6.4		1390	1280		ug/Kg	☼	92	48 - 110
Acenaphthene	<6.2		1390	1230		ug/Kg	☼	89	46 - 110
Acenaphthylene	<4.6		1390	1290		ug/Kg	☼	93	49 - 110
Anthracene	22	J	1390	1180		ug/Kg	☼	83	48 - 118
Benzo[a]anthracene	7.4	J	1390	1310		ug/Kg	☼	94	49 - 121
Benzo[a]pyrene	<6.7		1390	1040		ug/Kg	☼	75	53 - 122
Benzo[b]fluoranthene	<7.5		1390	1310		ug/Kg	☼	94	54 - 122
Benzo[g,h,i]perylene	<11	F1	1390	523	F1	ug/Kg	☼	38	52 - 125
Benzo[k]fluoranthene	<10		1390	1350		ug/Kg	☼	97	44 - 137
Chrysene	<9.4		1390	1260		ug/Kg	☼	91	45 - 118
Dibenz(a,h)anthracene	<6.7		1390	748		ug/Kg	☼	54	48 - 134
Fluoranthene	23	J	1390	1080		ug/Kg	☼	76	48 - 128
Fluorene	<4.9		1390	1230		ug/Kg	☼	88	47 - 121
Indeno[1,2,3-cd]pyrene	<9.0	F1	1390	615	F1	ug/Kg	☼	44	49 - 132
Naphthalene	<5.3		1390	1220		ug/Kg	☼	88	48 - 110
Phenanthrene	27	J	1390	1200		ug/Kg	☼	85	48 - 121
Pyrene	81	J F1	1390	1940	F1	ug/Kg	☼	140	46 - 114

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	85		25 - 119
Nitrobenzene-d5 (Surr)	90		25 - 115
Terphenyl-d14 (Surr)	151	X	36 - 134

Lab Sample ID: 500-99817-13 MSD
Matrix: Solid
Analysis Batch: 300289

Client Sample ID: B-9 8-10
Prep Type: Total/NA
Prep Batch: 300212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<8.5		1400	1390		ug/Kg	☼	99	50 - 110	10	30
2-Methylnaphthalene	<6.4		1400	1450		ug/Kg	☼	103	48 - 110	12	30
Acenaphthene	<6.2		1400	1470		ug/Kg	☼	105	46 - 110	17	30
Acenaphthylene	<4.6		1400	1520		ug/Kg	☼	109	49 - 110	17	30
Anthracene	22	J	1400	1350		ug/Kg	☼	95	48 - 118	13	30
Benzo[a]anthracene	7.4	J	1400	1440		ug/Kg	☼	103	49 - 121	10	30
Benzo[a]pyrene	<6.7		1400	1280		ug/Kg	☼	91	53 - 122	21	30
Benzo[b]fluoranthene	<7.5		1400	1660		ug/Kg	☼	118	54 - 122	24	30
Benzo[g,h,i]perylene	<11	F1	1400	679	F1	ug/Kg	☼	49	52 - 125	26	30
Benzo[k]fluoranthene	<10		1400	1710		ug/Kg	☼	122	44 - 137	23	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-99817-13 MSD
Matrix: Solid
Analysis Batch: 300289

Client Sample ID: B-9 8-10
Prep Type: Total/NA
Prep Batch: 300212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	<9.4		1400	1420		ug/Kg	☼	101	45 - 118	12	30
Dibenz(a,h)anthracene	<6.7		1400	878		ug/Kg	☼	63	48 - 134	16	30
Fluoranthene	23	J	1400	1290		ug/Kg	☼	90	48 - 128	18	30
Fluorene	<4.9		1400	1470		ug/Kg	☼	105	47 - 121	18	30
Indeno(1,2,3-cd)pyrene	<9.0	F1	1400	813		ug/Kg	☼	58	49 - 132	28	30
Naphthalene	<5.3		1400	1370		ug/Kg	☼	98	48 - 110	12	30
Phenanthrene	27	J	1400	1420		ug/Kg	☼	99	48 - 121	16	30
Pyrene	8.1	J F1	1400	2150	F1	ug/Kg	☼	153	46 - 114	10	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	100		25 - 119
Nitrobenzene-d5 (Surr)	98		25 - 115
Terphenyl-d14 (Surr)	174	X	36 - 134

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-299928/1-A
Matrix: Solid
Analysis Batch: 299952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		08/13/15 17:02	08/13/15 23:23	1
PCB-1221	<7.3		17	7.3	ug/Kg		08/13/15 17:02	08/13/15 23:23	1
PCB-1232	<7.3		17	7.3	ug/Kg		08/13/15 17:02	08/13/15 23:23	1
PCB-1242	<5.5		17	5.5	ug/Kg		08/13/15 17:02	08/13/15 23:23	1
PCB-1248	<6.6		17	6.6	ug/Kg		08/13/15 17:02	08/13/15 23:23	1
PCB-1254	<3.6		17	3.6	ug/Kg		08/13/15 17:02	08/13/15 23:23	1
PCB-1260	<8.2		17	8.2	ug/Kg		08/13/15 17:02	08/13/15 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	08/13/15 17:02	08/13/15 23:23	1
DCB Decachlorobiphenyl	112		48 - 142	08/13/15 17:02	08/13/15 23:23	1

Lab Sample ID: LCS 500-299928/3-A
Matrix: Solid
Analysis Batch: 299952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	156		ug/Kg		94	59 - 110
PCB-1260	167	167		ug/Kg		100	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	69		50 - 116
DCB Decachlorobiphenyl	107		48 - 142

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-299941/1-A
Matrix: Solid
Analysis Batch: 300153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		08/13/15 19:02	08/14/15 15:49	1
Cadmium	0.0695	J	0.20	0.058	mg/Kg		08/13/15 19:02	08/14/15 15:49	1
Lead	<0.25		0.50	0.25	mg/Kg		08/13/15 19:02	08/14/15 15:49	1

Lab Sample ID: LCS 500-299941/2-A
Matrix: Solid
Analysis Batch: 300153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.31		mg/Kg		93	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Lead	10.0	9.28		mg/Kg		93	80 - 120

Client Sample ID: B-1 0-2
Date Collected: 08/11/15 09:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-1 0-2
Date Collected: 08/11/15 09:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-1
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	299952	08/14/15 01:43	RLL	TAL CHI

Client Sample ID: B-1 10-12
Date Collected: 08/11/15 09:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-1 10-12
Date Collected: 08/11/15 09:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-2
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 09:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300423	08/18/15 18:05	TCT	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 03:51	BJH	TAL CHI

Client Sample ID: B-2 0-2
Date Collected: 08/11/15 11:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-2 0-2
Date Collected: 08/11/15 11:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-3
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	299952	08/14/15 01:53	RLL	TAL CHI

Client Sample ID: B-2 10-12
Date Collected: 08/11/15 11:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-2 10-12
Date Collected: 08/11/15 11:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-4
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 11:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300423	08/18/15 18:33	TCT	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300416	08/18/15 12:14	BJH	TAL CHI

Client Sample ID: B-3 12-14
Date Collected: 08/11/15 15:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-3 12-14
Date Collected: 08/11/15 15:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-5
Matrix: Solid
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 15:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300423	08/18/15 19:01	TCT	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 04:43	BJH	TAL CHI

Client Sample ID: B-4 8-10
Date Collected: 08/11/15 16:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-4 8-10
Date Collected: 08/11/15 16:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-6
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 16:15	WRE	TAL CHI

Client Sample ID: B-4 8-10
Date Collected: 08/11/15 16:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-6
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	300423	08/18/15 19:23	TCT	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 05:09	BJH	TAL CHI

Client Sample ID: B-5 10-12
Date Collected: 08/12/15 07:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-5 10-12
Date Collected: 08/12/15 07:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-7
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 07:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300423	08/18/15 19:57	TCT	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		5	300416	08/18/15 09:47	BJH	TAL CHI

Client Sample ID: B-6 12-14
Date Collected: 08/12/15 09:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-6 12-14
Date Collected: 08/12/15 09:30
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-8
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300423	08/18/15 20:25	TCT	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 06:01	BJH	TAL CHI

Client Sample ID: B-7 2-4
Date Collected: 08/11/15 13:05
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-7 2-4
Date Collected: 08/11/15 13:05
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-9
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	299952	08/14/15 02:07	RLL	TAL CHI

Client Sample ID: B-7 8-10
Date Collected: 08/11/15 13:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-7 8-10
Date Collected: 08/11/15 13:15
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-10
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 13:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 23:28	EMA	TAL CHI
Total/NA	Prep	3541			300211	08/16/15 19:20	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 06:27	BJH	TAL CHI

Client Sample ID: B-8 0-2
Date Collected: 08/11/15 10:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299892	08/13/15 14:37	LWN	TAL CHI

Client Sample ID: B-8 0-2
Date Collected: 08/11/15 10:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99817-11
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 17:41	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI

Client Sample ID: B-8 0-2 — **Lab Sample ID: 500-99817-11**
Date Collected: 08/11/15 10:00 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		5	300416	08/13/15 10:19	BJH	TAL CHI
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	299952	08/14/15 02:21	RLL	TAL CHI
Total/NA	Prep	3050B			299941	08/13/15 19:02	PJH	TAL CHI
Total/NA	Analysis	6010B		1	300153	08/14/15 17:52	KML	TAL CHI

Client Sample ID: B-9 2-4 — **Lab Sample ID: 500-99817-12**
Date Collected: 08/11/15 12:20 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-9 2-4 — **Lab Sample ID: 500-99817-12**
Date Collected: 08/11/15 12:20 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	299952	08/14/15 02:34	RLL	TAL CHI

Client Sample ID: B-9 8-10 — **Lab Sample ID: 500-99817-13**
Date Collected: 08/11/15 12:40 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-9 8-10 — **Lab Sample ID: 500-99817-13**
Date Collected: 08/11/15 12:40 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 18:06	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 14:06	KDL	TAL CHI

Client Sample ID: B-10 0-2 — **Lab Sample ID: 500-99817-14**
Date Collected: 08/12/15 11:55 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-10 0-2 — **Lab Sample ID: 500-99817-14**
Date Collected: 08/12/15 11:55 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	299952	08/14/15 02:48	RLL	TAL CHI

Client Sample ID: B-10 0-4 — **Lab Sample ID: 500-99817-15**
Date Collected: 08/12/15 12:00 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-10 0-4 — **Lab Sample ID: 500-99817-15**
Date Collected: 08/12/15 12:00 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 18:32	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 08:11	BJH	TAL CHI

Client Sample ID: B-11 0-2 — **Lab Sample ID: 500-99817-16**
Date Collected: 08/11/15 13:30 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-11 0-2 — **Lab Sample ID: 500-99817-16**
Date Collected: 08/11/15 13:30 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 18:57	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI

Client Sample ID: B-11 0-2 — **Lab Sample ID: 500-99817-16**
Date Collected: 08/11/15 13:30 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		5	300394	08/18/15 08:37	BJH	TAL CHI

Client Sample ID: B-12 8-10 — **Lab Sample ID: 500-99817-17**
Date Collected: 08/11/15 14:20 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-12 8-10 — **Lab Sample ID: 500-99817-17**
Date Collected: 08/11/15 14:20 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 14:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 19:22	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 14:36	KDL	TAL CHI

Client Sample ID: B-13 2-4 — **Lab Sample ID: 500-99817-18**
Date Collected: 08/11/15 16:35 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-13 2-4 — **Lab Sample ID: 500-99817-18**
Date Collected: 08/11/15 16:35 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 19:47	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300416	08/18/15 10:45	BJH	TAL CHI

Client Sample ID: B-14 8-10 — **Lab Sample ID: 500-99817-19**
Date Collected: 08/11/15 14:50 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-14 8-10 — **Lab Sample ID: 500-99817-19**
Date Collected: 08/11/15 14:50 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/11/15 14:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 20:12	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 15:05	KDL	TAL CHI

Client Sample ID: B-15 2-4 — **Lab Sample ID: 500-99817-20**
Date Collected: 08/12/15 12:55 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-15 2-4 — **Lab Sample ID: 500-99817-20**
Date Collected: 08/12/15 12:55 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 12:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 20:37	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 09:29	BJH	TAL CHI
Total/NA	Prep	3050B			299941	08/13/15 19:02	PJH	TAL CHI
Total/NA	Analysis	6010B		1	300153	08/14/15 17:57	KML	TAL CHI

Client Sample ID: B-16 2-4 — **Lab Sample ID: 500-99817-21**
Date Collected: 08/12/15 13:20 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-16 2-4 — **Lab Sample ID: 500-99817-21**
Date Collected: 08/12/15 13:20 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 21:02	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 09:55	BJH	TAL CHI

Client Sample ID: B-16 8-10 — **Lab Sample ID: 500-99817-22**
Date Collected: 08/12/15 13:25 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-16 8-10 — **Lab Sample ID: 500-99817-22**
Date Collected: 08/12/15 13:25 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 13:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 21:26	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 15:35	KDL	TAL CHI

Client Sample ID: B-19 6-8 — **Lab Sample ID: 500-99817-23**
Date Collected: 08/12/15 13:40 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-19 6-8 — **Lab Sample ID: 500-99817-23**
Date Collected: 08/12/15 13:40 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 13:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 21:51	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		5	300394	08/19/15 10:21	BJH	TAL CHI

Client Sample ID: B-20 2-4 — **Lab Sample ID: 500-99817-24**
Date Collected: 08/12/15 14:50 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-20 2-4 — **Lab Sample ID: 500-99817-24**
Date Collected: 08/12/15 14:50 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 14:50	WRE	TAL CHI

Client Sample ID: B-20 2-4 — **Lab Sample ID: 500-99817-24**
Date Collected: 08/12/15 14:50 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	300473	08/18/15 22:39	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 16:05	KDL	TAL CHI

Client Sample ID: B-21 6-8 — **Lab Sample ID: 500-99817-25**
Date Collected: 08/12/15 13:55 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-21 6-8 — **Lab Sample ID: 500-99817-25**
Date Collected: 08/12/15 13:55 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 62.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300128	08/12/15 13:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300473	08/18/15 23:03	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 16:35	KDL	TAL CHI

Client Sample ID: B-23 4-7 — **Lab Sample ID: 500-99817-26**
Date Collected: 08/12/15 14:15 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-23 4-7 — **Lab Sample ID: 500-99817-26**
Date Collected: 08/12/15 14:15 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 14:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 16:14	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 17:04	KDL	TAL CHI
Total/NA	Prep	3050B			299941	08/13/15 19:02	PJH	TAL CHI
Total/NA	Analysis	6010B		1	300153	08/14/15 18:02	KML	TAL CHI

Client Sample ID: B-24 2-4 — **Lab Sample ID: 500-99817-27**
Date Collected: 08/12/15 14:30 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-24 2-4 — **Lab Sample ID: 500-99817-27**
Date Collected: 08/12/15 14:30 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 14:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 16:43	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 17:34	KDL	TAL CHI

Client Sample ID: B-24 8-10 — **Lab Sample ID: 500-99817-28**
Date Collected: 08/12/15 14:40 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-24 8-10 — **Lab Sample ID: 500-99817-28**
Date Collected: 08/12/15 14:40 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 14:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 17:11	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 18:04	KDL	TAL CHI

Client Sample ID: B-28 0-2 — **Lab Sample ID: 500-99817-29**
Date Collected: 08/12/15 11:25 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-28 0-2 — **Lab Sample ID: 500-99817-29**
Date Collected: 08/12/15 11:25 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			299928	08/13/15 17:02	DEA	TAL CHI

Client Sample ID: B-28 0-2 — **Lab Sample ID: 500-99817-29**
Date Collected: 08/12/15 11:25 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		5	299952	08/14/15 11:36	RLL	TAL CHI
Total/NA	Prep	3550B			299941	08/13/15 19:02	PJH	TAL CHI
Total/NA	Analysis	6010B		1	300153	08/14/15 18:14	KML	TAL CHI

Client Sample ID: B-31 2-4 — **Lab Sample ID: 500-99817-30**
Date Collected: 08/12/15 10:55 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-31 2-4 — **Lab Sample ID: 500-99817-30**
Date Collected: 08/12/15 10:55 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 10:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 17:39	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 18:33	KDL	TAL CHI
Total/NA	Prep	3550B			299941	08/13/15 19:02	PJH	TAL CHI
Total/NA	Analysis	6010B		1	300153	08/14/15 18:18	KML	TAL CHI

Client Sample ID: B-32 8-10 — **Lab Sample ID: 500-99817-31**
Date Collected: 08/12/15 10:10 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299905	08/13/15 15:00	LWN	TAL CHI

Client Sample ID: B-32 8-10 — **Lab Sample ID: 500-99817-31**
Date Collected: 08/12/15 10:10 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 18:07	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300289	08/17/15 19:03	KDL	TAL CHI

Client Sample ID: B-33 0-2 — **Lab Sample ID: 500-99817-32**
Date Collected: 08/12/15 10:30 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299916	08/13/15 15:03	LWN	TAL CHI

Client Sample ID: B-33 0-2 — **Lab Sample ID: 500-99817-32**
Date Collected: 08/12/15 10:30 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 10:33	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 18:35	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300394	08/18/15 10:47	BJH	TAL CHI

Client Sample ID: B-34 2-4 — **Lab Sample ID: 500-99817-33**
Date Collected: 08/12/15 08:40 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299916	08/13/15 15:03	LWN	TAL CHI

Client Sample ID: B-34 2-4 — **Lab Sample ID: 500-99817-33**
Date Collected: 08/12/15 08:40 — Matrix: Solid
Date Received: 08/13/15 10:30 — Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/12/15 08:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 19:02	EMA	TAL CHI
Total/NA	Prep	3541			300212	08/16/15 19:34	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300283	08/17/15 19:33	KDL	TAL CHI

Client Sample ID: Trip Blank — **Lab Sample ID: 500-99817-34**
Date Collected: 08/11/15 00:00 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/11/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 15:13	EMA	TAL CHI

Client Sample ID: Trip Blank — **Lab Sample ID: 500-99817-35**
Date Collected: 08/11/15 00:00 — Matrix: Solid
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/11/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300424	08/18/15 15:46	EMA	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99817-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

* Certification renewal pending - certification considered valid

TestAmerica Chicago

Chain of Custody Record

TestAmerica

Project Manager: Kevin Engel

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TestAmerica Chicago

Chain of Custody Record

TestAmerica

University Park, IL 60484
Phone: 708 534 5200 Fax: 708 534 5363

Regulatory Program:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Kevin Bussel	Site Contact:	Date:	COC No: 3 of 3 COCs
Client: Engineering Associates	Tel/Fax:	Lab Contact:	Carrier:	
98 W22350 Johnson Dr Ste A1	Analysis Turnaround Time: CALENDAR DAYS / WORKING DAYS; TAT if different from Below: 5			Sampler:
Waukesha WI 53186	2 weeks: 3 days			For Lab Use Only: Walk-in Client: Lab Sampling:
262 544 0118	1 week:			
Email: kbussel@	2 days:			Job / SDG No.: 500-99817
Project Name: Proposed Development	1 day:			
Site: 4200 Burnham IL-158201				
PO #				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	PAHs	VOCs	Arsenic	Cadmium	Lead	Sample Specific Notes:
13	B-9 8-10	8/11/15	1240	G	S	2			X	X					
14	B-10 0-2	8/12/15	1155			1				X					
15	B-10 0-4	8/12/15	1200			2				X	X				
16	B-11 0-2	8/11/15	1330			1				X	X				
17	B-12 8-10	8/11/15	1420							X	X				
18	B-13 2-4	8/11/15	1635							X	X				
19	B-14 8-10	8/11/15	1450							X	X				
20	B-15 2-4	8/12/15	1255							X	X	X	X	X	
	B-15 8-10	8/12/15	1305							X	X	X	X	X	
21	B-16 2-4		1320							X	X				
22	B-16 8-10		1325							X	X				
23	B-19 6-8		1340							X	X				

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the samples in the Comments Section if the lab is to dispose of the sample.
X Non-Hazard | Flammable | Skin Irritant | Poison B | Unknown | Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return to Client | X Disposal by Lab | Archive for | Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes / No | Custody Seal No.: | Cooler Temp. (°C): Obs'd | Corr'd | Therm ID No.:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Kevin Bussel	Engineering Associates	8/12/15 1700			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
			Jim Wescott	TA-CHI	8/13/15 1030

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TestAmerica Chicago

Chain of Custody Record

TestAmerica

University Park, IL 60484
Phone: 708 534 5200 Fax: 708 534 5363

Regulatory Program:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Kevin Bussel	Site Contact:	Date:	COC No: 3 of 3 COCs
Client: Engineering Associates	Tel/Fax:	Lab Contact:	Carrier:	
98 W22350 Johnson Dr Ste A1	Analysis Turnaround Time: CALENDAR DAYS / WORKING DAYS; TAT if different from Below: 5			Sampler:
Waukesha WI 53186	2 weeks: 3 days			For Lab Use Only: Walk-in Client: Lab Sampling:
262 544 0118	1 week:			
Email: kbussel@	2 days:			Job / SDG No.: 500-99817
Project Name: Proposed Development	1 day:			
Site: 4200 Burnham IL-158201				
PO #				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	PAHs	VOCs	Arsenic	Cadmium	Lead	Sample Specific Notes:
24	B-20 2-4	8/12/15	1150	G	S	2				X	X				
25	B-21 6-8	8/12/15	1355			2				X	X				
26	B-23 4-7	8/12/15	1415			2				X	X	X	X	X	
27	B-24 2-4		1430			2				X	X				
28	B-24 8-10		1440			2				X	X				
29	B-38 0-2		1125			2			X		X	X	X	X	
30	B-31 2-4		1055			2				X	X	X	X	X	PAH, VOC, metals
31	B-32 8-10		1110			2				X	X				
32	B-33 0-2		1030			2				X	X				
33	B-34 2-4		840			2				X	X				
34	Trip Blank										X				
35	Trip Blank														added by TA

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the samples in the Comments Section if the lab is to dispose of the sample.
Non-Hazard | Flammable | Skin Irritant | Poison B | Unknown | Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return to Client | Disposal by Lab | Archive for | Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes / No | Custody Seal No.: | Cooler Temp. (°C): Obs'd | Corr'd | Therm ID No.:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
K					
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	Engineering Associates	8/13/15			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
			Jim Wescott	TA-CHI	8/13/15 1030

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Login Sample Receipt Checklist

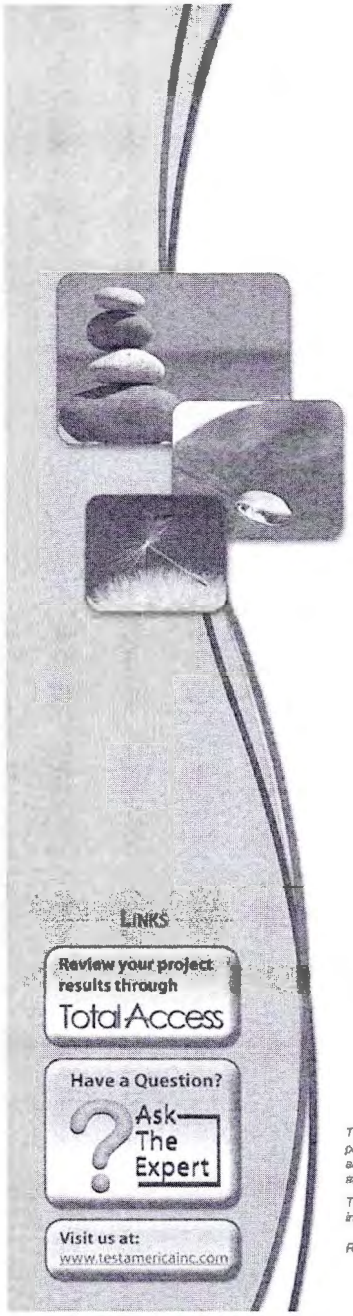
Client: Giles Engineering Associates

Job Number: 500-99817-1

Login Number: 99817
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,5.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-99894-1
Client Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

For.
Giles Engineering Associates
N8 W 22350 Johnson Road
Waukesha, Wisconsin 53186

Attn: Mr. Kevin Bugel

Sandie Fredrick

Authorized for release by:
8/19/2015 4:44:22 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmenca Job ID: 500-99894-1

Job ID: 500-99894-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-99894-1

Comments
No additional comments

Receipt
The samples were received on 8/14/2015 10:20 AM, the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA
Method(s) 5035: extract vial has < 8 grams of sample in 10 ml of methanol: B-17 0-4 (500-99894-1)

Method(s) 8260B: The method blank for preparation batch 300129 contained Toluene above the reporting limit (RL). There was insufficient sample to perform a re-extraction; therefore, the data has been reported. The analytical/instrument method blank was non-detect for all compounds.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batches 300129 recovered outside control limits for the following analytes: Styrene and Xylene (total). These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010B: The following sample was diluted due to the nature of the sample matrix: B-17 0-4 (500-99894-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3541: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with Prep Batch 300126 for the wipe sample matrix.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-17 0-4 — **Lab Sample ID: 500-99894-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1100		270	29	ug/Kg	50		8260B	Total/NA
1,3,5-Trimethylbenzene	520		270	28	ug/Kg	50		8260B	Total/NA
Benzene	72		34	10	ug/Kg	50		8260B	Total/NA
Ethylbenzene	760		34	17	ug/Kg	50		8260B	Total/NA
Naphthalene	1100		270	67	ug/Kg	50		8260B	Total/NA
N-Propylbenzene	460		270	24	ug/Kg	50		8260B	Total/NA
sec-Butylbenzene	210		140	21	ug/Kg	50		8260B	Total/NA
tert-Butylbenzene	260		140	19	ug/Kg	50		8260B	Total/NA
Toluene	1400	B	34	16	ug/Kg	50		8260B	Total/NA
Xylenes, Total	3000	*	68	9.3	ug/Kg	50		8260B	Total/NA
1-Methylnaphthalene	400		39	9.6	ug/Kg	1		8270D	Total/NA
2-Methylnaphthalene	440		39	7.3	ug/Kg	1		8270D	Total/NA
Acenaphthene	18	J	39	7.1	ug/Kg	1		8270D	Total/NA
Anthracene	84		39	6.6	ug/Kg	1		8270D	Total/NA
Benzo[a]anthracene	230		39	5.3	ug/Kg	1		8270D	Total/NA
Benzo[a]pyrene	180		39	7.6	ug/Kg	1		8270D	Total/NA
Benzo[b]fluoranthene	190		39	8.5	ug/Kg	1		8270D	Total/NA
Benzo[g,h,i]perylene	80	F1	39	13	ug/Kg	1		8270D	Total/NA
Benzo[k]fluoranthene	230		39	12	ug/Kg	1		8270D	Total/NA
Chrysene	280		39	11	ug/Kg	1		8270D	Total/NA
Fluoranthene	440		39	7.3	ug/Kg	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110		39	10	ug/Kg	1		8270D	Total/NA
Naphthalene	210		39	6.1	ug/Kg	1		8270D	Total/NA
Phenanthrene	1000		39	5.5	ug/Kg	1		8270D	Total/NA
Pyrene	540		39	7.8	ug/Kg	1		8270D	Total/NA
Arsenic	12		6.0	2.8	mg/Kg	5		6010B	Total/NA
Cadmium	5.5	B	1.2	0.35	mg/Kg	5		6010B	Total/NA
Lead	39		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-18 0-4 — **Lab Sample ID: 500-99894-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.3	J	35	4.8	ug/Kg	1		8270D	Total/NA
Benzo[a]pyrene	7.5	J	35	6.9	ug/Kg	1		8270D	Total/NA
Benzo[b]fluoranthene	10	J	35	7.7	ug/Kg	1		8270D	Total/NA
Chrysene	9.8	J	35	9.7	ug/Kg	1		8270D	Total/NA
Fluoranthene	19	J	35	6.6	ug/Kg	1		8270D	Total/NA
Phenanthrene	9.1	J	35	5.0	ug/Kg	1		8270D	Total/NA
Pyrene	11	J	35	7.1	ug/Kg	1		8270D	Total/NA

Client Sample ID: B-22 0-4 — **Lab Sample ID: 500-99894-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	14	J	34	8.3	ug/Kg	1		8270D	Total/NA
2-Methylnaphthalene	15	J	34	6.3	ug/Kg	1		8270D	Total/NA
Acenaphthylene	5.3	J	34	4.5	ug/Kg	1		8270D	Total/NA
Anthracene	21	J	34	5.7	ug/Kg	1		8270D	Total/NA
Benzo[a]anthracene	130		34	4.6	ug/Kg	1		8270D	Total/NA
Benzo[a]pyrene	140		34	6.0	ug/Kg	1		8270D	Total/NA
Benzo[b]fluoranthene	190		34	7.4	ug/Kg	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-22 0-4 (Continued)

Lab Sample ID: 500-99894-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	120		34	11	ug/Kg	1		8270D	Total/NA
Benzo[k]fluoranthene	63		34	10	ug/Kg	1		8270D	Total/NA
Chrysene	130		34	9.3	ug/Kg	1		8270D	Total/NA
Dibenz[a,h]anthracene	29	J	34	6.6	ug/Kg	1		8270D	Total/NA
Fluoranthene	210		34	6.3	ug/Kg	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110		34	8.9	ug/Kg	1		8270D	Total/NA
Naphthalene	15	J	34	5.3	ug/Kg	1		8270D	Total/NA
Phenanthrene	93		34	4.8	ug/Kg	1		8270D	Total/NA
Pyrene	180		34	6.8	ug/Kg	1		8270D	Total/NA

Client Sample ID: B-25 0-4

Lab Sample ID: 500-99894-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	36		34	8.3	ug/Kg	1		8270D	Total/NA
2-Methylnaphthalene	35		34	6.2	ug/Kg	1		8270D	Total/NA
Anthracene	21	J	34	5.7	ug/Kg	1		8270D	Total/NA
Benzo[a]anthracene	33	J	34	4.6	ug/Kg	1		8270D	Total/NA
Benzo[b]fluoranthene	46		34	7.3	ug/Kg	1		8270D	Total/NA
Chrysene	37		34	9.3	ug/Kg	1		8270D	Total/NA
Fluoranthene	51		34	6.3	ug/Kg	1		8270D	Total/NA
Naphthalene	9.7	J	34	5.2	ug/Kg	1		8270D	Total/NA
Phenanthrene	110		34	4.7	ug/Kg	1		8270D	Total/NA
Pyrene	56		34	6.7	ug/Kg	1		8270D	Total/NA

Client Sample ID: B-26 0-1

Lab Sample ID: 500-99894-5

No Detections

Client Sample ID: B-27 0-1

Lab Sample ID: 500-99894-6

No Detections

Client Sample ID: B-29 0-1

Lab Sample ID: 500-99894-7

No Detections

Client Sample ID: B-30 0-1

Lab Sample ID: 500-99894-8

No Detections

Client Sample ID: Trip Blank

Lab Sample ID: 500-99894-9

No Detections

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-99894-1	B-17 0-4	Solid	08/13/15 09:35	08/14/15 10:20
500-99894-2	B-18 0-4	Solid	08/13/15 09:50	08/14/15 10:20
500-99894-3	B-22 0-4	Solid	08/13/15 10:15	08/14/15 10:20
500-99894-4	B-25 0-4	Solid	08/13/15 10:30	08/14/15 10:20
500-99894-5	B-26 0-1	Solid	08/13/15 07:55	08/14/15 10:20
500-99894-6	B-27 0-1	Solid	08/13/15 07:50	08/14/15 10:20
500-99894-7	B-29 0-1	Solid	08/13/15 07:45	08/14/15 10:20
500-99894-8	B-30 0-1	Solid	08/13/15 08:55	08/14/15 10:20
500-99894-9	Trip Blank	Solid	08/13/15 00:00	08/14/15 10:20

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-17 0-4
Date Collected: 08/13/15 09:35
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-1
Matrix: Solid
Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<47		270	47	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,1,1-Trichloroethane	<27		140	27	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,1,2,2-Tetrachloroethane	<32		140	32	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,1,2-Trichloroethane	<38		140	38	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,1-Dichloroethane	<25		140	25	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,1-Dichloroethene	<42		140	42	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,1-Dichloropropene	<47		140	47	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2,3-Trichlorobenzene	<48		270	48	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2,3-Trichloropropane	<78		270	78	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2,4-Trichlorobenzene	<52		270	52	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2,4-Trimethylbenzene	**1100**		270	29	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2-Dibromo-3-Chloropropane	<120		270	120	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2-Dibromoethane	<43		270	43	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2-Dichlorobenzene	<28		270	28	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2-Dichloroethane	<39		140	39	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,2-Dichloropropane	<27		140	27	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,3,5-Trimethylbenzene	**520**		270	28	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,3-Dichlorobenzene	<35		270	35	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,3-Dichloropropane	<18		140	18	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
1,4-Dichlorobenzene	<24		270	24	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
2,2-Dichloropropane	<43		140	43	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
2-Chlorotoluene	<28		140	28	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
4-Chlorotoluene	<27		140	27	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Benzene	**72**		34	10	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Bromobenzene	<58		270	58	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Bromochloromethane	<52		270	52	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Bromodichloromethane	<46		270	46	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Bromoform	<60		270	60	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Bromomethane	<93		270	93	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Carbon tetrachloride	<35		140	35	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Chlorobenzene	<20		140	20	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Chloroethane	<59		270	59	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Chloroform	<28		140	28	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Chloromethane	<63		270	63	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
cis-1,2-Dichloroethene	<17		140	17	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
cis-1,3-Dichloropropene	<24		140	24	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Dibromochloromethane	<47		270	47	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Dibromomethane	<66		270	66	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Dichlorodifluoromethane	<70		270	70	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Ethylbenzene	**760**		34	17	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Hexachlorobutadiene	<47		270	47	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Isopropyl ether	<20		270	20	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Isopropylbenzene	<34		270	34	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Methyl tert-butyl ether	<59		270	59	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Methylene Chloride	<93		680	93	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Naphthalene	**1100**		270	67	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
n-Butylbenzene	<18		140	18	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
N-Propylbenzene	**460**		270	24	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
p-Isopropyltoluene	<25		270	25	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50

Client Sample ID: B-17 0-4
Date Collected: 08/13/15 09:35
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-1
Matrix: Solid
Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	210		140	21	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Styrene	<13	*	140	13	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
tert-Butylbenzene	260		140	19	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Tetrachloroethene	<23		140	23	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Toluene	1400	B	34	16	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
trans-1,2-Dichloroethene	<34		140	34	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
trans-1,3-Dichloropropene	<28		140	28	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Trichloroethene	<25		68	25	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Trichlorofluoromethane	<57		270	57	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Vinyl chloride	<14		34	14	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50
Xylenes, Total	3000	*	68	9.3	ug/Kg	☼	08/13/15 09:35	08/19/15 04:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	08/13/15 09:35	08/19/15 04:14	50
4-Bromofluorobenzene (Surr)	102		75 - 120	08/13/15 09:35	08/19/15 04:14	50
Dibromofluoromethane	101		75 - 120	08/13/15 09:35	08/19/15 04:14	50
Toluene-d8 (Surr)	112		75 - 120	08/13/15 09:35	08/19/15 04:14	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	400		39	9.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
2-Methylnaphthalene	440		39	7.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Acenaphthene	18	J	39	7.1	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Acenaphthylene	<5.2		39	5.2	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Anthracene	84		39	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Benzo[a]anthracene	230		39	5.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Benzo[a]pyrene	180		39	7.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Benzo[b]fluoranthene	190		39	8.5	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Benzo[g,h,i]perylene	80	F1	39	13	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Benzo[k]fluoranthene	230		39	12	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Chrysene	260		39	11	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Dibenz[a,h]anthracene	<7.6		39	7.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Fluoranthene	440		39	7.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Fluorene	<5.5		39	5.5	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Indeno[1,2,3-cd]pyrene	110		39	10	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Naphthalene	210		39	6.1	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Phenanthrene	1000		39	5.5	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1
Pyrene	540		39	7.8	ug/Kg	☼	08/17/15 16:05	08/19/15 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	08/17/15 16:05	08/19/15 14:13	1
Nitrobenzene-d5 (Surr)	78		25 - 115	08/17/15 16:05	08/19/15 14:13	1
Terphenyl-d14 (Surr)	108		36 - 134	08/17/15 16:05	08/19/15 14:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		6.0	2.8	mg/Kg	☼	08/16/15 17:45	08/17/15 16:13	5
Cadmium	5.5	B	1.2	0.35	mg/Kg	☼	08/16/15 17:45	08/17/15 16:13	5
Lead	39		3.0	1.5	mg/Kg	☼	08/16/15 17:45	08/17/15 16:13	5

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-18 0-4
Date Collected: 08/13/15 09:50
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-2
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,1,1-Trichloroethane	<12		61	12	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,1,2,2-Tetrachloroethane	<14		61	14	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,1,2-Trichloroethane	<17		61	17	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,1-Dichloroethane	<11		61	11	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,1-Dichloroethene	<19		61	19	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,1-Dichloropropene	<21		61	21	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2,3-Trichlorobenzene	<21		120	21	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2,3-Trichloropropane	<35		120	35	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2,4-Trichlorobenzene	<23		120	23	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2-Dibromo-3-Chloropropane	<53		120	53	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2-Dichloroethane	<17		61	17	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,2-Dichloropropane	<12		61	12	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,3,5-Trimethylbenzene	<13		120	13	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,3-Dichloropropane	<8.1		61	8.1	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
2,2-Dichloropropane	<19		61	19	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
2-Chlorotoluene	<13		61	13	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
4-Chlorotoluene	<12		61	12	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Benzene	<4.5		15	4.5	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Bromobenzene	<26		120	26	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Bromochloromethane	<23		120	23	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Bromodichloromethane	<21		120	21	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Bromoform	<27		120	27	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Bromomethane	<41		120	41	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Carbon tetrachloride	<16		61	16	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Chlorobenzene	<8.7		61	8.7	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Chloroethane	<26		120	26	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Chloroform	<12		61	12	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Chloromethane	<28		120	28	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
cis-1,2-Dichloroethene	<7.5		61	7.5	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
cis-1,3-Dichloropropene	<11		61	11	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Dibromomethane	<29		120	29	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Dichlorodifluoromethane	<31		120	31	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Ethylbenzene	<7.7		15	7.7	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Isopropyl ether	<8.9		120	8.9	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Methylene Chloride	<41		300	41	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Naphthalene	<30		120	30	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
n-Butylbenzene	<7.8		61	7.8	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50

Client Sample ID: B-18 0-4
Date Collected: 08/13/15 09:50
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-2
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.4		61	9.4	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Styrene	<8.0	*	61	8.0	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
tert-Butylbenzene	<8.3		61	8.3	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Tetrachloroethene	<10		61	10	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Toluene	<7.0		15	7.0	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
trans-1,2-Dichloroethene	<15		61	15	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
trans-1,3-Dichloropropene	<13		61	13	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Trichloroethene	<11		30	11	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Vinyl chloride	<6.3		15	6.3	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50
Xylenes, Total	<4.2	*	30	4.2	ug/Kg	☼	08/13/15 09:50	08/19/15 04:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	08/13/15 09:50	08/19/15 04:42	50
4-Bromofluorobenzene (Surr)	90		75 - 120	08/13/15 09:50	08/19/15 04:42	50
Dibromofluoromethane	109		75 - 120	08/13/15 09:50	08/19/15 04:42	50
Toluene-d8 (Surr)	107		75 - 120	08/13/15 09:50	08/19/15 04:42	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.7		35	6.7	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
2-Methylnaphthalene	<6.6		35	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Anthracene	<6.0		35	6.0	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Benzo[a]anthracene	7.3	J	35	4.8	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Benzo[a]pyrene	7.5	J	35	6.9	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Benzo[b]fluoranthene	10	J	35	7.7	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Benzo[g,h,i]perylene	<12		35	12	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Benzo[k]fluoranthene	<11		35	11	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Chrysene	9.8	J	35	9.7	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Dibenz(a,h)anthracene	<6.9		35	6.9	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Fluoranthene	19	J	35	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Indeno[1,2,3-cd]pyrene	<9.3		35	9.3	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Naphthalene	<5.5		35	5.5	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Phenanthrene	9.1	J	35	5.0	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1
Pyrene	11	J	35	7.1	ug/Kg	☼	08/17/15 16:05	08/19/15 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		25 - 119	08/17/15 16:05	08/19/15 13:14	1
Nitrobenzene-d5 (Surr)	42		25 - 115	08/17/15 16:05	08/19/15 13:14	1
Terphenyl-d14 (Surr)	49		35 - 134	08/17/15 16:05	08/19/15 13:14	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-22 0-4
Date Collected: 08/13/15 10:15
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-3
Matrix: Solid
Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethene	<20		120	20	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2-Dibromo-3-Chloropropane	<51		120	51	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2-Dichloroethane	<17		58	17	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
4-Chlorotoluene	<12		58	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Benzene	<4.3		15	4.3	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Bromobenzene	<25		120	25	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Bromochloromethane	<22		120	22	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Bromoform	<26		120	26	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Bromomethane	<40		120	40	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Chlorobenzene	<8.4		58	8.4	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Chloroethane	<25		120	25	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Chloroform	<12		58	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Chloromethane	<27		120	27	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
cis-1,2-Dichloroethene	<7.2		58	7.2	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Dibromomethane	<28		120	28	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Ethylbenzene	<7.4		15	7.4	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Isopropyl ether	<8.6		120	8.6	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Methylene Chloride	<40		290	40	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Naphthalene	<29		120	29	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50

Client Sample ID: B-22 0-4
Date Collected: 08/13/15 10:15
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-3
Matrix: Solid
Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.0		58	9.0	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Styrene	<5.8	*	58	5.8	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Tetrachloroethene	<9.8		58	9.8	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Toluene	<6.7		15	6.7	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
trans-1,2-Dichloroethene	<15		58	15	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Trichloroethene	<11		29	11	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Vinyl chloride	<6.1		15	6.1	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50
Xylenes, Total	<4.0	*	29	4.0	ug/Kg	☼	08/13/15 10:15	08/19/15 05:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	08/13/15 10:15	08/19/15 05:10	50
4-Bromofluorobenzene (Surr)	91		75 - 120	08/13/15 10:15	08/19/15 05:10	50
Dibromofluoromethane	109		75 - 120	08/13/15 10:15	08/19/15 05:10	50
Toluene-d8 (Surr)	107		75 - 120	08/13/15 10:15	08/19/15 05:10	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	14	J	34	8.3	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
2-Methylnaphthalene	16	J	34	6.3	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Acenaphthylene	6.3	J	34	4.5	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Anthracene	21	J	34	5.7	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Benzo[a]anthracene	130		34	4.6	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Benzo[a]pyrene	140		34	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Benzo[b]fluoranthene	190		34	7.4	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Benzo[g,h,i]perylene	120		34	11	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Benzo[k]fluoranthene	63		34	10	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Chrysene	130		34	9.3	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Dibenz(a,h)anthracene	29	J	34	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Fluoranthene	210		34	6.3	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Indeno[1,2,3-cd]pyrene	110		34	8.9	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Naphthalene	15	J	34	5.3	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Phenanthrene	93		34	4.8	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1
Pyrene	180		34	6.8	ug/Kg	☼	08/17/15 16:05	08/19/15 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	08/17/15 16:05	08/19/15 13:43	1
Nitrobenzene-d5 (Surr)	52		25 - 115	08/17/15 16:05	08/19/15 13:43	1
Terphenyl-d14 (Surr)	58		36 - 134	08/17/15 16:05	08/19/15 13:43	1

Client Sample ID: B-25 0-4
Date Collected: 08/13/15 10:30
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-4
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		110	20	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,1,1-Trichloroethane	<11		57	11	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,1,2,2-Tetrachloroethane	<13		57	13	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,1,2-Trichloroethane	<16		57	16	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,1-Dichloroethane	<11		57	11	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,1-Dichloroethene	<18		57	18	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,1-Dichloropropene	<20		57	20	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2,3-Trichloropropane	<33		110	33	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2,4-Trichlorobenzene	<22		110	22	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2-Dibromo-3-Chloropropane	<50		110	50	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2-Dichloroethane	<16		57	16	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,2-Dichloropropane	<11		57	11	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,3-Dichlorobenzene	<15		110	15	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,3-Dichloropropane	<7.7		57	7.7	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
1,4-Dichlorobenzene	<9.9		110	9.9	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
2,2-Dichloropropane	<18		57	18	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
2-Chlorotoluene	<12		57	12	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
4-Chlorotoluene	<11		57	11	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Benzene	<4.2		14	4.2	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Bromobenzene	<24		110	24	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Bromochloromethane	<22		110	22	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Bromoform	<25		110	25	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Bromomethane	<39		110	39	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Carbon tetrachloride	<15		57	15	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Chlorobenzene	<8.2		57	8.2	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Chloroethane	<25		110	25	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Chloroform	<12		57	12	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Chloromethane	<26		110	26	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
cis-1,2-Dichloroethene	<7.0		57	7.0	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
cis-1,3-Dichloropropene	<10		57	10	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Dibromochloromethane	<20		110	20	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Dibromomethane	<27		110	27	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Ethylbenzene	<7.2		14	7.2	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Hexachlorobutadiene	<20		110	20	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Isopropyl ether	<8.4		110	8.4	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Methyl tert-butyl ether	<25		110	25	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Methylene Chloride	<39		290	39	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Naphthalene	<28		110	28	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
n-Butylbenzene	<7.4		57	7.4	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
N-Propylbenzene	<10		110	10	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
p-Isopropyltoluene	<11		110	11	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50

Client Sample ID: B-25 0-4
Date Collected: 08/13/15 10:30
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-4
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.8		57	8.8	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Styrene	<5.6	*	57	5.6	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
tert-Butylbenzene	<7.8		57	7.8	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Tetrachloroethene	<9.5		57	9.5	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Toluene	<6.6		14	6.6	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
trans-1,2-Dichloroethene	<14		57	14	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
trans-1,3-Dichloropropene	<12		57	12	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Trichloroethene	<11		29	11	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Trichlorofluoromethane	<24		110	24	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Vinyl chloride	<5.9		14	5.9	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50
Xylenes, Total	<3.9	*	29	3.9	ug/Kg	☼	08/13/15 10:30	08/19/15 05:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	08/13/15 10:30	08/19/15 05:37	50
4-Bromofluorobenzene (Surr)	91		75 - 120	08/13/15 10:30	08/19/15 05:37	50
Dibromofluoromethane	110		75 - 120	08/13/15 10:30	08/19/15 05:37	50
Toluene-d8 (Surr)	108		75 - 120	08/13/15 10:30	08/19/15 05:37	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	36		34	8.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
2-Methylnaphthalene	35		34	6.2	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Anthracene	21	J	34	5.7	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Benzo[a]anthracene	33	J	34	4.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Benzo[a]pyrene	<6.6		34	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Benzo[b]fluoranthene	46		34	7.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Chrysene	37		34	9.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Dibenz[a,h]anthracene	<6.6		34	6.6	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Fluoranthene	51		34	6.3	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Naphthalene	9.7	J	34	5.2	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Phenanthrene	110		34	4.7	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1
Pyrene	56		34	6.7	ug/Kg	☼	08/17/15 16:05	08/19/15 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	08/17/15 16:05	08/19/15 14:42	1
Nitrobenzene-d5 (Surr)	75		25 - 115	08/17/15 16:05	08/19/15 14:42	1
Terphenyl-d14 (Surr)	99		36 - 134	08/17/15 16:05	08/19/15 14:42	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-26 0-1
Date Collected: 08/13/15 07:55
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-5
Matrix: Solid
Percent Solids: 86.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.5		18	6.5	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1
PCB-1221	<9.1		18	8.1	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1
PCB-1242	<6.1		18	6.1	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1
PCB-1248	<7.3		18	7.3	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1
PCB-1254	<4.0		18	4.0	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1
PCB-1260	<9.1		18	9.1	ug/Kg	☼	08/14/15 17:02	08/17/15 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		50 - 116	08/14/15 17:02	08/17/15 17:14	1
DCB Decachlorobiphenyl	93		48 - 142	08/14/15 17:02	08/17/15 17:14	1

Client Sample ID: B-27 0-1
Date Collected: 08/13/15 07:50
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-6
Matrix: Solid
Percent Solids: 89.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.6		19	6.6	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1
PCB-1221	<9.2		19	8.2	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	08/14/15 17:02	08/17/15 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		50 - 116	08/14/15 17:02	08/17/15 17:27	1
DCB Decachlorobiphenyl	109		48 - 142	08/14/15 17:02	08/17/15 17:27	1

Client Sample ID: B-29 0-1
Date Collected: 08/13/15 07:45
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-7
Matrix: Solid
Percent Solids: 89.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.3		18	6.3	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1
PCB-1260	<8.8		18	8.8	ug/Kg	☼	08/14/15 17:02	08/17/15 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		50 - 116	08/14/15 17:02	08/17/15 17:41	1
DCB Decachlorobiphenyl	103		48 - 142	08/14/15 17:02	08/17/15 17:41	1

Client Sample ID: B-30 0-1
Date Collected: 08/13/15 08:55
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-8
Matrix: Solid
Percent Solids: 89.0

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1
PCB-1232	<7.9		18	7.9	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1
PCB-1260	<8.9		18	8.9	ug/Kg	☼	08/14/15 17:02	08/17/15 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		50 - 116	08/14/15 17:02	08/17/15 17:55	1
DCB Decachlorobiphenyl	99		48 - 142	08/14/15 17:02	08/17/15 17:55	1

Client Sample ID: Trip Blank
Date Collected: 08/13/15 00:00
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,1-Dichloroethene	<15		50	15	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,1-Dichloropropene	<17		50	17	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2-Dibromoethane	<16		100	16	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2-Dichloroethane	<14		50	14	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
2,2-Dichloropropane	<16		50	16	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
2-Chlorotoluene	<10		50	10	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Benzene	<3.7		13	3.7	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Bromobenzene	<21		100	21	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Bromochloromethane	<19		100	19	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Bromodichloromethane	<17		100	17	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Bromoform	<22		100	22	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Bromomethane	<34		100	34	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Carbon tetrachloride	<13		50	13	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Chloroethane	<22		100	22	ug/Kg		08/13/15 00:00	08/19/15 03:46	50

Client Sample ID: Trip Blank
Date Collected: 08/13/15 00:00
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<10		50	10	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Chloromethane	<23		100	23	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Dibromochloromethane	<17		100	17	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Dibromomethane	<24		100	24	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Ethylbenzene	<8.3		13	8.3	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Hexachlorobutadiene	<17		100	17	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Isopropylbenzene	<13		100	13	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Methylene Chloride	<34		250	34	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Naphthalene	<25		100	25	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Styrene	<4.9	*	50	4.9	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Toluene	<5.8		13	5.8	ug/Kg		08/13/16 00:00	08/19/15 03:46	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Trichloroethene	<9.3		25	9.3	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Trichlorofluoromethane	<21		100	21	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		08/13/15 00:00	08/19/15 03:46	50
Xylenes, Total	<3.4	*	25	3.4	ug/Kg		08/13/15 00:00	08/19/15 03:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 125	08/13/15 00:00	08/19/15 03:46	50
4-Bromofluorobenzene (Surr)	91		75 - 120	08/13/15 00:00	08/19/15 03:46	50
Dibromofluoromethane	111		75 - 120	08/13/15 00:00	08/19/15 03:46	50
Toluene-d8 (Surr)	107		75 - 120	08/13/15 00:00	08/19/15 03:46	50

Definitions/Glossary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

GC/MS VOA

Prep Batch: 300129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	5035	
500-99894-2	B-18 0-4	Total/NA	Solid	5035	
500-99894-3	B-22 0-4	Total/NA	Solid	5035	
500-99894-4	B-25 0-4	Total/NA	Solid	5035	
500-99894-9	Trip Blank	Total/NA	Solid	5035	
LB3 500-300129/19-A	Method Blank	Total/NA	Solid	5035	
LCS 500-300129/20-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 300528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	8260B	300129
500-99894-2	B-18 0-4	Total/NA	Solid	8260B	300129
500-99894-3	B-22 0-4	Total/NA	Solid	8260B	300129
500-99894-4	B-25 0-4	Total/NA	Solid	8260B	300129
500-99894-9	Trip Blank	Total/NA	Solid	8260B	300129
LB3 500-300129/19-A	Method Blank	Total/NA	Solid	8260B	300129
LCS 500-300129/20-A	Lab Control Sample	Total/NA	Solid	8260B	300129
LCS 500-300528/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-300528/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	3541	
500-99894-1 MS	B-17 0-4	Total/NA	Solid	3541	
500-99894-1 MSD	B-17 0-4	Total/NA	Solid	3541	
500-99894-2	B-18 0-4	Total/NA	Solid	3541	
500-99894-3	B-22 0-4	Total/NA	Solid	3541	
500-99894-4	B-25 0-4	Total/NA	Solid	3541	
LCS 500-300340/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-300340/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 300653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	8270D	300340
500-99894-1 MS	B-17 0-4	Total/NA	Solid	8270D	300340
500-99894-1 MSD	B-17 0-4	Total/NA	Solid	8270D	300340
500-99894-2	B-18 0-4	Total/NA	Solid	8270D	300340
500-99894-3	B-22 0-4	Total/NA	Solid	8270D	300340
500-99894-4	B-25 0-4	Total/NA	Solid	8270D	300340

Analysis Batch: 300657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-300340/2-A	Lab Control Sample	Total/NA	Solid	8270D	300340
MB 500-300340/1-A	Method Blank	Total/NA	Solid	8270D	300340

QC Association Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

GC Semi VOA

Analysis Batch: 300089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-5	B-26 0-1	Total/NA	Solid	8082	300126
500-99894-6	B-27 0-1	Total/NA	Solid	8082	300126
500-99894-7	B-29 0-1	Total/NA	Solid	8082	300126
500-99894-8	B-30 0-1	Total/NA	Solid	8082	300126
LCS 500-300126/2-A	Lab Control Sample	Total/NA	Solid	8082	300126
MB 500-300126/1-A	Method Blank	Total/NA	Solid	8082	300126

Prep Batch: 300126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-5	B-26 0-1	Total/NA	Solid	3541	
500-99894-6	B-27 0-1	Total/NA	Solid	3541	
500-99894-7	B-29 0-1	Total/NA	Solid	3541	
500-99894-8	B-30 0-1	Total/NA	Solid	3541	
LCS 500-300126/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-300126/1-A	Method Blank	Total/NA	Solid	3541	

Metals

Prep Batch: 300204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	3050B	
LCS 500-300204/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-300204/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 300407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	6010B	300204
LCS 500-300204/2-A	Lab Control Sample	Total/NA	Solid	6010B	300204
MB 500-300204/1-A	Method Blank	Total/NA	Solid	6010B	300204

General Chemistry

Analysis Batch: 300090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99894-1	B-17 0-4	Total/NA	Solid	Moisture	
500-99894-2	B-18 0-4	Total/NA	Solid	Moisture	
500-99894-3	B-22 0-4	Total/NA	Solid	Moisture	
500-99894-4	B-25 0-4	Total/NA	Solid	Moisture	
500-99894-5	B-26 0-1	Total/NA	Solid	Moisture	
500-99894-6	B-27 0-1	Total/NA	Solid	Moisture	
500-99894-7	B-29 0-1	Total/NA	Solid	Moisture	
500-99894-8	B-30 0-1	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-99894-1	B-17 0-4	100	102	101	112
500-99894-2	B-18 0-4	107	90	109	107
500-99894-3	B-22 0-4	107	91	109	107
500-99894-4	B-25 0-4	106	91	110	108
500-99894-9	Trip Blank	109	91	111	107
LB3 500-300129/19-A	Method Blank	107	91	112	107
LCS 500-300129/20-A	Lab Control Sample	100	107	101	104
LCS 500-300528/4	Lab Control Sample	98	104	100	102
MB 500-300528/7	Method Blank	106	93	110	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (26-119)	NBZ (26-116)	TPH (36-134)
500-99894-1	B-17 0-4	64	78	108
500-99894-1 MS	B-17 0-4	77	79	111
500-99894-1 MSD	B-17 0-4	69	71	102
500-99894-2	B-18 0-4	44	42	49
500-99894-3	B-22 0-4	53	52	58
500-99894-4	B-25 0-4	75	75	99
LCS 500-300340/2-A	Lab Control Sample	79	86	86
MB 500-300340/1-A	Method Blank	83	68	92

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-99894-5	B-26 0-1	73	93
500-99894-6	B-27 0-1	95	109
500-99894-7	B-29 0-1	96	103
500-99894-8	B-30 0-1	93	99
LCS 500-300126/2-A	Lab Control Sample	95	108
MB 500-300126/1-A	Method Blank	98	105

Surrogate Legend

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

TCX = Tetrachloro-m-xylene
DCB = DC3 Decachlorobiphenyl

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-300129/19-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300129

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1-Dichloroethene	<15		50	15	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,1-Dichloropropene	<17		50	17	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2-Dibromoethane	<16		100	16	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2-Dichloroethane	<14		50	14	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
2,2-Dichloropropane	<16		50	16	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
2-Chlorotoluene	<10		50	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Benzene	<3.7		13	3.7	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Bromobenzene	<21		100	21	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Bromochloromethane	<19		100	19	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Bromodichloromethane	<17		100	17	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Bromoform	<22		100	22	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Bromomethane	<34		100	34	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Carbon tetrachloride	<13		50	13	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Chloroethane	<22		100	22	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Chloroform	<10		50	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Chloromethane	<23		100	23	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Dibromochloromethane	<17		100	17	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Dibromomethane	<24		100	24	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Ethylbenzene	<5.3		13	5.3	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Hexachlorobutadiene	<17		100	17	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Isopropylbenzene	<13		100	13	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Methylene Chloride	<34		250	34	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Naphthalene	<25		100	25	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		08/14/15 17:00	08/19/15 03:19	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-300129/19-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300129

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Styrene	<4.9		50	4.9	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Toluene	23.2		13	5.8	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Trichloroethene	<9.3		25	9.3	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Trichlorofluoromethane	<21		100	21	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		08/14/15 17:00	08/19/15 03:19	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		08/14/15 17:00	08/19/15 03:19	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*08/14/15 17:00*	*08/19/15 03:19*	*50*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*	*08/14/15 17:00*	*08/19/15 03:19*	*50*
Dibromofluoromethane	*112*		*75 - 120*	*08/14/15 17:00*	*08/19/15 03:19*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/14/15 17:00*	*08/19/15 03:19*	*50*

Lab Sample ID: LCS 500-300129/20-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2740		ug/Kg		110	70 - 124
1,1,1-Trichloroethane	2500	2700		ug/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	2500	2640		ug/Kg		106	68 - 133
1,1,2-Trichloroethane	2500	2780		ug/Kg		111	70 - 125
1,1-Dichloroethane	2500	2790		ug/Kg		112	70 - 127
1,1-Dichloroethene	2500	2830		ug/Kg		113	68 - 121
1,1-Dichloropropene	2500	2930		ug/Kg		117	70 - 126
1,2,3-Trichlorobenzene	2500	2780		ug/Kg		111	70 - 133
1,2,3-Trichloropropane	2500	2630		ug/Kg		105	53 - 139
1,2,4-Trichlorobenzene	2500	2600		ug/Kg		104	70 - 125
1,2,4-Trimethylbenzene	2500	2990		ug/Kg		120	70 - 127
1,2-Dibromo-3-Chloropropane	2500	2650		ug/Kg		106	59 - 139
1,2-Dibromoethane	2500	2750		ug/Kg		110	70 - 124
1,2-Dichlorobenzene	2500	2660		ug/Kg		106	70 - 123
1,2-Dichloroethane	2500	2630		ug/Kg		105	66 - 132
1,2-Dichloropropane	2500	2840		ug/Kg		114	70 - 127
1,3,5-Trimethylbenzene	2500	2980		ug/Kg		119	70 - 129
1,3-Dichlorobenzene	2500	2670		ug/Kg		107	70 - 122
1,3-Dichloropropane	2500	2840		ug/Kg		114	70 - 127
1,4-Dichlorobenzene	2500	2620		ug/Kg		105	70 - 120
2,2-Dichloropropane	2500	2690		ug/Kg		108	68 - 120
2-Chlorotoluene	2500	2840		ug/Kg		114	70 - 128
4-Chlorotoluene	2500	2890		ug/Kg		115	70 - 127
Benzene	2500	2830		ug/Kg		113	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300129/20-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2620		ug/Kg		105	70 - 129
Bromochloromethane	2500	2770		ug/Kg		111	70 - 121
Bromodichloromethane	2500	2650		ug/Kg		106	70 - 127
Bromoform	2500	2710		ug/Kg		108	70 - 135
Bromomethane	2500	2200		ug/Kg		88	30 - 170
Carbon tetrachloride	2500	2730		ug/Kg		109	70 - 136
Chlorobenzene	2500	2730		ug/Kg		109	70 - 120
Chloroethane	2500	2620		ug/Kg		105	40 - 150
Chloroform	2500	2620		ug/Kg		105	70 - 120
Chloromethane	2500	2470		ug/Kg		99	45 - 140
cis-1,2-Dichloroethene	2500	2750		ug/Kg		110	70 - 120
cis-1,3-Dichloropropene	2500	2830		ug/Kg		113	70 - 122
Dibromochloromethane	2500	2710		ug/Kg		108	70 - 120
Dibromomethane	2500	2580		ug/Kg		103	70 - 120
Dichlorodifluoromethane	2500	1950		ug/Kg		78	30 - 150
Ethylbenzene	2500	2960		ug/Kg		118	70 - 125
Hexachlorobutadiene	2500	2700		ug/Kg		108	70 - 138
Isopropylbenzene	2500	2890		ug/Kg		116	70 - 132
Methyl tert-butyl ether	2500	2790		ug/Kg		112	65 - 120
Methylene Chloride	2500	2920		ug/Kg		117	70 - 120
Naphthalene	2500	2600		ug/Kg		104	59 - 143
n-Butylbenzene	2500	2970		ug/Kg		119	70 - 129
N-Propylbenzene	2500	2960		ug/Kg		118	70 - 122
p-Isopropyltoluene	2500	2920		ug/Kg		117	70 - 133
sec-Butylbenzene	2500	2970		ug/Kg		119	70 - 134
Styrene	2500	3070	*	ug/Kg		123	70 - 120
tert-Butylbenzene	2500	3020		ug/Kg		121	70 - 137
Tetrachloroethene	2500	2680		ug/Kg		107	70 - 129
Toluene	2500	2960		ug/Kg		119	70 - 120
trans-1,2-Dichloroethene	2500	2860		ug/Kg		115	70 - 120
trans-1,3-Dichloropropene	2500	2840		ug/Kg		114	70 - 123
Trichloroethene	2500	2830		ug/Kg		113	70 - 122
Trichlorofluoromethane	2500	2460		ug/Kg		98	65 - 134
Vinyl chloride	2500	2530		ug/Kg		101	63 - 127
Xylenes, Total	5000	6120	*	ug/Kg		122	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			08/19/15 00:05	1
1,1,2-Trichloroethane	<0.25		1.0	0.25	ug/Kg			08/19/15 00:05	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			08/19/15 00:05	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			08/19/15 00:05	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			08/19/15 00:05	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			08/19/15 00:05	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			08/19/15 00:05	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			08/19/15 00:05	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			08/19/15 00:05	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			08/19/15 00:05	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			08/19/15 00:05	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			08/19/15 00:05	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			08/19/15 00:05	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			08/19/15 00:05	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
Benzene	<0.074		0.25	0.074	ug/Kg			08/19/15 00:05	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			08/19/15 00:05	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			08/19/15 00:05	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			08/19/15 00:05	1
Bromoform	<0.44		2.0	0.44	ug/Kg			08/19/15 00:05	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			08/19/15 00:05	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			08/19/15 00:05	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			08/19/15 00:05	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			08/19/15 00:05	1
Chloroform	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			08/19/15 00:05	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			08/19/15 00:05	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			08/19/15 00:05	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			08/19/15 00:05	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			08/19/15 00:05	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			08/19/15 00:05	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			08/19/15 00:05	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			08/19/15 00:05	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			08/19/15 00:05	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			08/19/15 00:05	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			08/19/15 00:05	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			08/19/15 00:05	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			08/19/15 00:05	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			08/19/15 00:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			08/19/15 00:05	1
Styrene	<0.099		1.0	0.099	ug/Kg			08/19/15 00:05	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			08/19/15 00:05	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			08/19/15 00:05	1
Toluene	<0.12		0.25	0.12	ug/Kg			08/19/15 00:05	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			08/19/15 00:05	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			08/19/15 00:05	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			08/19/15 00:05	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			08/19/15 00:05	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			08/19/15 00:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125		08/19/15 00:05	1
4-Bromofluorobenzene (Surr)	93		75 - 120		08/19/15 00:05	1
Dibromofluoromethane	110		75 - 120		08/19/15 00:05	1
Toluene-d8 (Surr)	107		75 - 120		08/19/15 00:05	1

Lab Sample ID: LCS 500-300528/4
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	43.2		ug/Kg		86	70 - 124
1,1,1-Trichloroethane	50.0	37.1		ug/Kg		74	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	68 - 133
1,1,2-Trichloroethane	50.0	43.3		ug/Kg		87	70 - 125
1,1-Dichloroethane	50.0	38.9		ug/Kg		78	70 - 127
1,1-Dichloroethene	50.0	36.8		ug/Kg		74	69 - 121
1,1-Dichloropropene	50.0	39.5		ug/Kg		79	70 - 126
1,2,3-Trichlorobenzene	50.0	45.3		ug/Kg		91	70 - 133
1,2,3-Trichloropropane	50.0	44.8		ug/Kg		90	53 - 139
1,2,4-Trichlorobenzene	50.0	41.9		ug/Kg		84	70 - 125
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/Kg		87	59 - 139
1,2-Dibromoethane	50.0	41.6		ug/Kg		83	70 - 124
1,2-Dichlorobenzene	50.0	43.9		ug/Kg		88	70 - 123
1,2-Dichloroethane	50.0	37.3		ug/Kg		75	66 - 132
1,2-Dichloropropane	50.0	40.5		ug/Kg		81	70 - 127
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 129
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	70 - 122
1,3-Dichloropropane	50.0	43.2		ug/Kg		86	70 - 127
1,4-Dichlorobenzene	50.0	43.1		ug/Kg		86	70 - 120
2,2-Dichloropropane	50.0	37.0		ug/Kg		74	63 - 120
2-Chlorotoluene	50.0	46.0		ug/Kg		92	70 - 123
4-Chlorotoluene	50.0	46.2		ug/Kg		92	70 - 127
Benzene	50.0	39.6		ug/Kg		79	70 - 120
Bromobenzene	50.0	42.5		ug/Kg		85	70 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300528/4
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	39.6		ug/Kg		79	70 - 121
Bromodichloromethane	50.0	38.8		ug/Kg		78	70 - 127
Bromoform	50.0	44.1		ug/Kg		88	70 - 135
Bromomethane	50.0	35.8		ug/Kg		72	30 - 170
Carbon tetrachloride	50.0	36.8		ug/Kg		74	70 - 136
Chlorobenzene	50.0	41.7		ug/Kg		83	70 - 120
Chloroethane	50.0	43.1		ug/Kg		86	40 - 150
Chloroform	50.0	37.1		ug/Kg		74	70 - 120
Chloromethane	50.0	44.2		ug/Kg		88	45 - 140
cis-1,2-Dichloroethene	50.0	38.5		ug/Kg		77	70 - 120
cis-1,3-Dichloropropene	50.0	40.4		ug/Kg		81	70 - 122
Dibromochloromethane	50.0	42.6		ug/Kg		85	70 - 120
Dibromomethane	50.0	37.7		ug/Kg		75	70 - 120
Dichlorodifluoromethane	50.0	41.6		ug/Kg		83	30 - 150
Ethylbenzene	50.0	44.5		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	40.1		ug/Kg		80	70 - 138
Isopropylbenzene	50.0	44.5		ug/Kg		89	70 - 132
Methyl tert-butyl ether	50.0	37.9		ug/Kg		76	65 - 120
Methylene Chloride	50.0	40.7		ug/Kg		81	70 - 120
Naphthalene	50.0	43.1		ug/Kg		86	59 - 143
n-Butylbenzene	50.0	45.3		ug/Kg		91	70 - 129
N-Propylbenzene	50.0	46.1		ug/Kg		92	70 - 132
p-Isopropyltoluene	50.0	45.0		ug/Kg		90	70 - 133
sec-Butylbenzene	50.0	45.7		ug/Kg		91	70 - 134
Styrene	50.0	47.7		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	46.8		ug/Kg		94	70 - 137
Tetrachloroethene	50.0	38.5		ug/Kg		77	70 - 129
Toluene	50.0	41.8		ug/Kg		84	70 - 120
trans-1,2-Dichloroethene	50.0	38.5		ug/Kg		77	70 - 120
trans-1,3-Dichloropropene	50.0	42.5		ug/Kg		85	70 - 123
Trichloroethene	50.0	39.4		ug/Kg		79	70 - 122
Trichlorofluoromethane	50.0	39.6		ug/Kg		79	65 - 134
Vinyl chloride	50.0	43.6		ug/Kg		87	63 - 127
Xylenes, Total	100	92.3		ug/Kg		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-300340/1-A
Matrix: Solid
Analysis Batch: 300657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<3.1		33	8.1	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
2-Methylnaphthalene	<5.1		33	6.1	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Acenaphthene	<5.0		33	6.0	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Anthracene	<5.6		33	5.6	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Benzo[a]pyrene	<5.4		33	6.4	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Chrysene	<9.1		33	9.1	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Dibenz(a,h)anthracene	<5.4		33	6.4	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Fluoranthene	<5.2		33	6.2	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Fluorene	<4.7		33	4.7	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/17/15 16:05	08/19/15 11:35	1
Pyrene	<5.6		33	6.6	ug/Kg		08/17/15 16:05	08/19/15 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*25 - 119*	*08/17/15 16:05*	*08/19/15 11:35*	*1*
Nitrobenzene-d5 (Surr)	*68*		*25 - 115*	*08/17/15 16:05*	*08/19/15 11:35*	*1*
Terphenyl-d14 (Surr)	*92*		*35 - 134*	*08/17/15 16:05*	*08/19/15 11:35*	*1*

Lab Sample ID: LCS 500-300340/2-A
Matrix: Solid
Analysis Batch: 300657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1020		ug/Kg		77	50 - 110
2-Methylnaphthalene	1330	988		ug/Kg		74	48 - 110
Acenaphthene	1330	1040		ug/Kg		78	48 - 110
Acenaphthylene	1330	1050		ug/Kg		79	49 - 110
Anthracene	1330	1040		ug/Kg		78	48 - 118
Benzo[a]anthracene	1330	1130		ug/Kg		85	49 - 121
Benzo[a]pyrene	1330	1130		ug/Kg		85	53 - 122
Benzo[b]fluoranthene	1330	1080		ug/Kg		81	54 - 122
Benzo[g,h,i]perylene	1330	1220		ug/Kg		91	52 - 125
Benzo[k]fluoranthene	1330	1040		ug/Kg		78	44 - 137
Chrysene	1330	1110		ug/Kg		83	45 - 118
Dibenz(a,h)anthracene	1330	1180		ug/Kg		88	48 - 134
Fluoranthene	1330	1130		ug/Kg		84	48 - 128
Fluorene	1330	1050		ug/Kg		79	47 - 121
Indeno[1,2,3-cd]pyrene	1330	1230		ug/Kg		92	49 - 132
Naphthalene	1330	1040		ug/Kg		78	48 - 110
Phenanthrene	1330	1060		ug/Kg		79	48 - 121
Pyrene	1330	1090		ug/Kg		82	46 - 114

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300340/2-A
Matrix: Solid
Analysis Batch: 300657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300340

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	79		25 - 119
Nitrobenzene-d5 (Surr)	86		25 - 115
Terphenyl-d14 (Surr)	86		36 - 134

Lab Sample ID: 500-99894-1 MS
Matrix: Solid
Analysis Batch: 300653

Client Sample ID: B-17 0-4
Prep Type: Total/NA
Prep Batch: 300340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	400		1570	1440		ug/Kg	☼	66	50 - 110
2-Methylnaphthalene	440		1570	1530		ug/Kg	☼	69	48 - 110
Acenaphthene	18	J	1570	1190		ug/Kg	☼	75	46 - 110
Acenaphthylene	<5.2		1570	1230		ug/Kg	☼	78	49 - 110
Anthracene	84		1570	1360		ug/Kg	☼	81	48 - 118
Benzo[a]anthracene	230		1570	1420		ug/Kg	☼	76	49 - 121
Benzo[a]pyrene	180		1570	1380		ug/Kg	☼	76	53 - 122
Benzo[b]fluoranthene	190		1570	1600		ug/Kg	☼	90	54 - 122
Benzo[g,h,i]perylene	80	F1	1570	821	F1	ug/Kg	☼	47	52 - 125
Benzo[k]fluoranthene	230		1570	1460		ug/Kg	☼	79	44 - 137
Chrysene	280		1570	1500		ug/Kg	☼	78	45 - 118
Dibenz(a,h)anthracene	<7.6		1570	861		ug/Kg	☼	55	48 - 134
Fluoranthene	440		1570	1720		ug/Kg	☼	81	48 - 128
Fluorene	<5.5		1570	1230		ug/Kg	☼	78	47 - 121
Indeno[1,2,3-cd]pyrene	110		1570	1100		ug/Kg	☼	63	49 - 132
Naphthalene	210		1570	1300		ug/Kg	☼	70	48 - 110
Phenanthrene	1000		1570	1850		ug/Kg	☼	53	48 - 121
Pyrene	540		1570	2130		ug/Kg	☼	101	46 - 114

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	77		25 - 119
Nitrobenzene-d5 (Surr)	79		25 - 115
Terphenyl-d14 (Surr)	111		36 - 134

Lab Sample ID: 500-99894-1 MSD
Matrix: Solid
Analysis Batch: 300653

Client Sample ID: B-17 0-4
Prep Type: Total/NA
Prep Batch: 300340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	400		1600	1390		ug/Kg	☼	62	50 - 110	3	30
2-Methylnaphthalene	440		1600	1410		ug/Kg	☼	60	48 - 110	8	30
Acenaphthene	18	J	1600	1170		ug/Kg	☼	72	46 - 110	2	30
Acenaphthylene	<5.2		1600	1170		ug/Kg	☼	73	49 - 110	5	30
Anthracene	84		1600	1300		ug/Kg	☼	76	48 - 118	4	30
Benzo[a]anthracene	230		1600	1230		ug/Kg	☼	62	49 - 121	15	30
Benzo[a]pyrene	180		1600	1210		ug/Kg	☼	64	53 - 122	13	30
Benzo[b]fluoranthene	190		1600	1450		ug/Kg	☼	79	54 - 122	9	30
Benzo[g,h,i]perylene	80	F1	1600	693	F1	ug/Kg	☼	35	52 - 125	18	30
Benzo[k]fluoranthene	230		1600	1490		ug/Kg	☼	78	44 - 137	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-99894-1 MSD
Matrix: Solid
Analysis Batch: 300653

Client Sample ID: B-17 0-4
Prep Type: Total/NA
Prep Batch: 300340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	280		1600	1350		ug/Kg	☼	67	45 - 118	11	30
Dibenz(a,h)anthracene	<7.6		1600	771		ug/Kg	☼	48	48 - 134	11	30
Fluoranthene	440		1600	1510		ug/Kg	☼	67	48 - 128	13	30
Fluorene	<5.5		1600	1170		ug/Kg	☼	73	47 - 121	5	30
Indeno[1,2,3-cd]pyrene	110		1600	956		ug/Kg	☼	53	49 - 132	13	30
Naphthalene	210		1600	1250		ug/Kg	☼	65	48 - 110	4	30
Phenanthrene	1000		1600	2050		ug/Kg	☼	64	48 - 121	10	30
Pyrene	540		1600	1950		ug/Kg	☼	88	46 - 114	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	69		25 - 119
Nitrobenzene-d5 (Surr)	71		25 - 115
Terphenyl-d14 (Surr)	102		36 - 134

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-300126/1-A
Matrix: Solid
Analysis Batch: 300089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		08/14/15 17:02	08/17/15 12:13	1
PCB-1221	<7.3		17	7.3	ug/Kg		08/14/15 17:02	08/17/15 12:13	1
PCB-1232	<7.3		17	7.3	ug/Kg		08/14/15 17:02	08/17/15 12:13	1
PCB-1242	<5.5		17	5.5	ug/Kg		08/14/15 17:02	08/17/15 12:13	1
PCB-1248	<6.6		17	6.6	ug/Kg		08/14/15 17:02	08/17/15 12:13	1
PCB-1254	<3.6		17	3.6	ug/Kg		08/14/15 17:02	08/17/15 12:13	1
PCB-1260	<8.2		17	8.2	ug/Kg		08/14/15 17:02	08/17/15 12:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		50 - 116	08/14/15 17:02	08/17/15 12:13	1
DCB Decachlorobiphenyl	106		48 - 142	08/14/15 17:02	08/17/15 12:13	1

Lab Sample ID: LCS 500-300126/2-A
Matrix: Solid
Analysis Batch: 300089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	159		ug/Kg		95	59 - 110
PCB-1260	167	170		ug/Kg		102	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	95		50 - 116
DCB Decachlorobiphenyl	108		48 - 142

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-300204/1-A
Matrix: Solid
Analysis Batch: 300407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		08/16/15 17:45	08/17/15 14:35	1
Cadmium	0.0697	J	0.20	0.058	mg/Kg		08/16/15 17:45	08/17/15 14:35	1
Lead	<0.25		0.50	0.25	mg/Kg		08/16/15 17:45	08/17/15 14:35	1

Lab Sample ID: LCS 500-300204/2-A
Matrix: Solid
Analysis Batch: 300407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.27		mg/Kg		93	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Lead	10.0	9.31		mg/Kg		93	80 - 120

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: B-17 0-4
Date Collected: 08/13/15 09:35
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-17 0-4
Date Collected: 08/13/15 09:35
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-1
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/13/15 09:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300528	08/19/15 04:14	EMA	TAL CHI
Total/NA	Prep	3541			300340	08/17/15 16:05	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300653	08/19/15 14:13	KDL	TAL CHI
Total/NA	Prep	3050B			300204	08/16/15 17:45	PJH	TAL CHI
Total/NA	Analysis	6010B		5	300407	08/17/15 16:13	PJ1	TAL CHI

Client Sample ID: B-18 0-4
Date Collected: 08/13/15 09:50
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-18 0-4
Date Collected: 08/13/15 09:50
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-2
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/13/15 09:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300528	08/19/15 04:42	EMA	TAL CHI
Total/NA	Prep	3541			300340	08/17/15 16:05	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300653	08/19/15 13:14	KDL	TAL CHI

Client Sample ID: B-22 0-4
Date Collected: 08/13/15 10:15
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-22 0-4 — **Lab Sample ID: 500-99894-3**
Date Collected: 08/13/15 10:15 — Matrix: Solid
Date Received: 08/14/15 10:20 — Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/13/15 10:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300528	08/19/15 05:13	EMA	TAL CHI
Total/NA	Prep	3541			300340	08/17/15 16:05	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300653	08/19/15 13:43	KDL	TAL CHI

Client Sample ID: B-25 0-4 — **Lab Sample ID: 500-99894-4**
Date Collected: 08/13/15 10:30 — Matrix: Solid
Date Received: 08/14/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-25 0-4 — **Lab Sample ID: 500-99894-4**
Date Collected: 08/13/15 10:30 — Matrix: Solid
Date Received: 08/14/15 10:20 — Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/13/15 10:33	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300528	08/19/15 05:37	EMA	TAL CHI
Total/NA	Prep	3541			300340	08/17/15 16:05	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300653	08/19/15 14:42	KDL	TAL CHI

Client Sample ID: B-26 0-1 — **Lab Sample ID: 500-99894-5**
Date Collected: 08/13/15 07:55 — Matrix: Solid
Date Received: 08/14/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-26 0-1 — **Lab Sample ID: 500-99894-5**
Date Collected: 08/13/15 07:55 — Matrix: Solid
Date Received: 08/14/15 10:20 — Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			300126	08/14/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	300089	08/17/15 17:14	RLL	TAL CHI

Client Sample ID: B-27 0-1 — **Lab Sample ID: 500-99894-6**
Date Collected: 08/13/15 07:50 — Matrix: Solid
Date Received: 08/14/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-27 0-1 — **Lab Sample ID: 500-99894-6**
Date Collected: 08/13/15 07:50 — Matrix: Solid
Date Received: 08/14/15 10:20 — Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			300126	08/14/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	300089	08/17/15 17:27	RLL	TAL CHI

Client Sample ID: B-29 0-1 — **Lab Sample ID: 500-99894-7**
Date Collected: 08/13/15 07:45 — Matrix: Solid
Date Received: 08/14/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-29 0-1 — **Lab Sample ID: 500-99894-7**
Date Collected: 08/13/15 07:45 — Matrix: Solid
Date Received: 08/14/15 10:20 — Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			300126	08/14/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	300089	08/17/15 17:41	RLL	TAL CHI

Client Sample ID: B-30 0-1 — **Lab Sample ID: 500-99894-8**
Date Collected: 08/13/15 08:55 — Matrix: Solid
Date Received: 08/14/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300090	08/14/15 14:57	LWN	TAL CHI

Client Sample ID: B-30 0-1 — **Lab Sample ID: 500-99894-8**
Date Collected: 08/13/15 08:55 — Matrix: Solid
Date Received: 08/14/15 10:20 — Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			300126	08/14/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8082		1	300089	08/17/15 17:55	RLL	TAL CHI

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Client Sample ID: Trip Blank
Date Collected: 08/13/15 00:00
Date Received: 08/14/15 10:20

Lab Sample ID: 500-99894-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300129	08/13/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	300528	08/19/15 03:46	EMA	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99894-1

Laboratory: TestAmerica Chicago
Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

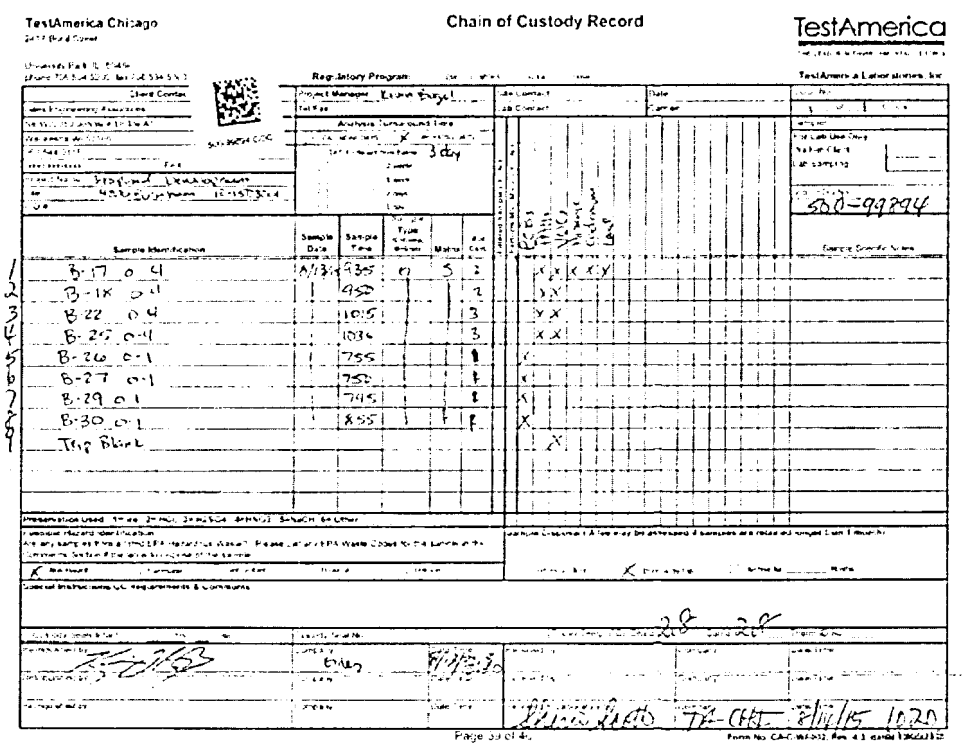
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid

TestAmerica Chicago

Chain of Custody Record

TestAmerica



Login Sample Receipt Checklist

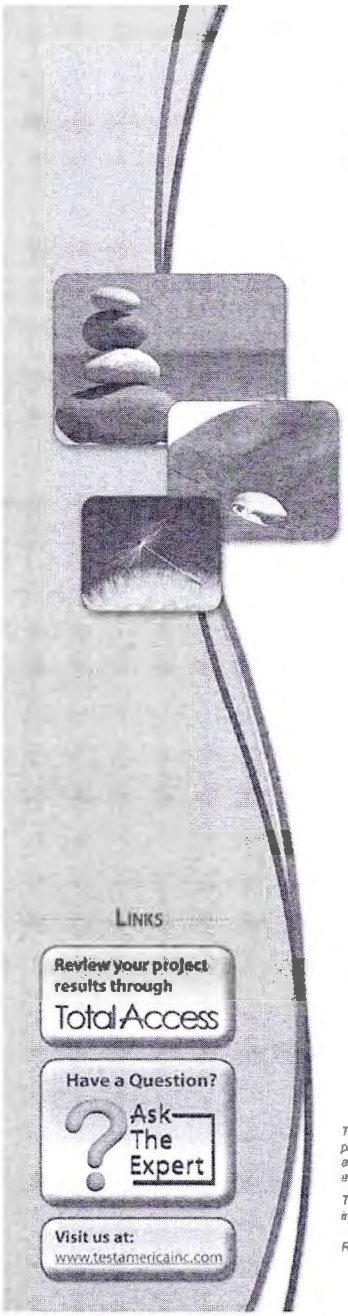
Client: Giles Engineering Associates

Job Number: 500-99894-1

Login Number: 99894
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact	True	
The cooler or samples do not appear to have been compromised or tampered with	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-99949-1
Client Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

For:
Giles Engineering Associates
N8 W 22350 Johnson Road
Waukesha, Wisconsin 53186

Attn: Mr. Kevin Bugel

Sandie Fredrick

Authorized for release by:
8/20/2015 12:15:08 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99949-1

Job ID: 500-99949-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-99949-1

Comments
No additional comments

Receipt
The sample was received on 8/15/2015 10:55 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low-level CCV at line 86 in 6010C batch 500-300837 was above the method acceptance limits of 70-130% recovery for Lead. The sample B-15 8-10 (500-99949-1) was bracketed. The low-level standard concentration was insignificant compared with the reported sample results and the sample results were unaffected by the bias at that level. The mid-range CCVs bracketing the data were all within the 90-110% recovery limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

Client Sample ID: B-15 8-10 — **Lab Sample ID: 500-99949-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.7		1.3	0.60	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.58	B	0.25	0.056	mg/Kg	1	☼	6010C	Total/NA
Lead	67	^	0.65	0.32	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99949-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-99949-1	B-15 8-10	Solid	08/14/15 09:00	08/15/15 10:55

Client Sample ID: B-15 8-10
Date Collected: 08/14/15 09:00
Date Received: 08/15/15 10:55

Lab Sample ID: 500-99949-1
Matrix: Solid
Percent Solids: 76.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		160	28	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,1,1-Trichloroethane	<18		81	16	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,1,2,2-Tetrachloroethane	<19		81	19	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,1,2-Trichloroethane	<23		81	23	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,1-Dichloroethane	<15		81	15	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,1-Dichloroethene	<25		81	25	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,1-Dichloropropene	<28		81	28	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2,3-Trichlorobenzene	<28		160	28	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2,3-Trichloropropane	<46		160	46	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2,4-Trichlorobenzene	<31		160	31	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2,4-Trimethylbenzene	<17		160	17	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2-Dibromo-3-Chloropropane	<71		160	71	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2-Dichlorobenzene	<17		160	17	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2-Dichloroethane	<23		81	23	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,2-Dichloropropane	<16		81	16	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,3,5-Trimethylbenzene	<17		160	17	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,3-Dichlorobenzene	<21		160	21	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,3-Dichloropropane	<11		81	11	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
2,2-Dichloropropane	<26		81	26	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
2-Chlorotoluene	<17		81	17	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
4-Chlorotoluene	<16		81	16	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Benzene	<6.0		20	6.0	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Bromobenzene	<34		160	34	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Bromochloromethane	<31		160	31	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Bromoform	<36		160	36	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Bromomethane	<55		160	55	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Carbon tetrachloride	<21		81	21	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Chlorobenzene	<12		81	12	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Chloroethane	<35		160	35	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Chloroform	<17		81	17	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Chloromethane	<37		160	37	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
cis-1,2-Dichloroethene	<10		81	10	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
cis-1,3-Dichloropropene	<14		81	14	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Dibromochloromethane	<28		160	28	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Dibromomethane	<39		160	30	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Dichlorodifluoromethane	<42		160	42	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Ethylbenzene	<10		20	10	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Hexachlorobutadiene	<28		160	28	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Isopropyl ether	<12		160	12	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Methyl tert-butyl ether	<35		160	35	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Methylene Chloride	<55		400	55	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Naphthalene	<40		160	40	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
n-Butylbenzene	<10		81	10	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99949-1

Client Sample ID: B-15 8-10
Date Collected: 08/14/15 09:00
Date Received: 08/15/15 10:55

Lab Sample ID: 500-99949-1
Matrix: Solid
Percent Solids: 76.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<12		81	12	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Styrene	<8.0		81	8.0	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
tert-Butylbenzene	<11		81	11	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Tetrachloroethene	<14		81	14	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Toluene	<9.3		20	9.3	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
trans-1,2-Dichloroethene	<20		81	20	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
trans-1,3-Dichloropropene	<17		81	17	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Trichloroethene	<15		40	15	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Trichlorofluoromethane	<34		160	34	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Vinyl chloride	<8.4		20	8.4	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50
Xylenes, Total	<5.5		40	5.5	ug/Kg	☼	08/14/15 09:00	08/19/15 06:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*08/14/15 09:00*	*08/19/15 06:33*	*50*
4-Bromofluorobenzene (Surr)	*89*		*75 - 120*	*08/14/15 09:00*	*08/19/15 06:33*	*50*
Dibromofluoromethane	*112*		*75 - 120*	*08/14/15 09:00*	*08/19/15 06:33*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/14/15 09:00*	*08/19/15 06:33*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<11		43	11	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
2-Methylnaphthalene	<8.0		43	8.0	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Acenaphthene	<7.8		43	7.8	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Acenaphthylene	<5.7		43	5.7	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Anthracene	<7.2		43	7.2	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Benzo[a]anthracene	<5.8		43	5.8	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Benzo[a]pyrene	<8.4		43	8.4	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Benzo[b]fluoranthene	<9.4		43	9.4	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Benzo[g,h,i]perylene	<14		43	14	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Benzo[k]fluoranthene	<13		43	13	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Chrysene	<12		43	12	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Dibenz(a,h)anthracene	<8.4		43	8.4	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Fluoranthene	<8.0		43	8.0	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Fluorene	<6.1		43	6.1	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Indeno[1,2,3-cd]pyrene	<11		43	11	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Naphthalene	<5.7		43	5.7	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Phenanthrene	<6.0		43	6.0	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1
Pyrene	<8.6		43	8.6	ug/Kg	☼	08/17/15 17:02	08/19/15 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*25 - 119*	*08/17/15 17:02*	*08/19/15 23:31*	*1*
Nitrobenzene-d5 (Surr)	*50*		*25 - 115*	*08/17/15 17:02*	*08/19/15 23:31*	*1*
Terphenyl-d14 (Surr)	*69*		*36 - 134*	*08/17/15 17:02*	*08/19/15 23:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		1.3	0.60	mg/Kg	☼	08/18/15 17:39	08/20/15 02:25	1
Cadmium	0.53	B	0.26	0.056	mg/Kg	☼	08/18/15 17:39	08/20/15 02:25	1
Lead	67	^	0.65	0.32	mg/Kg	☼	08/18/15 17:39	08/20/15 02:25	1

Definitions/Glossary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99949-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample
*	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard. Instrument related QC is outside acceptance limits
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

GC/MS VOA

Analysis Batch: 300528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	8260B	300539
LB3 500-300539/2-A	Method Blank	Total/NA	Solid	8260B	300539
LCS 500-300528/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-300539/3-A	Lab Control Sample	Total/NA	Solid	8260B	300539
MB 500-300528/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 300539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	5035	
LB3 500-300539/2-A	Method Blank	Total/NA	Solid	5035	
LCS 500-300539/3-A	Lab Control Sample	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 300355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	3541	
LCS 500-300355/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-300355/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 300641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-300355/2-A	Lab Control Sample	Total/NA	Solid	8270D	300355
MB 500-300355/1-A	Method Blank	Total/NA	Solid	8270D	300355

Analysis Batch: 300798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	8270D	300355

Metals

Prep Batch: 300555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	3050B	
500-99949-1 DU	B-15 8-10	Total/NA	Solid	3050B	
500-99949-1 MS	B-15 8-10	Total/NA	Solid	3050B	
500-99949-1 MSD	B-15 8-10	Total/NA	Solid	3050B	
LCS 500-300555/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-300555/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 300837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	6010C	300555
500-99949-1 DU	B-15 8-10	Total/NA	Solid	6010C	300555
500-99949-1 MS	B-15 8-10	Total/NA	Solid	6010C	300555
500-99949-1 MSD	B-15 8-10	Total/NA	Solid	6010C	300555
LCS 500-300555/2-A	Lab Control Sample	Total/NA	Solid	6010C	300555
MB 500-300555/1-A	Method Blank	Total/NA	Solid	6010C	300555

QC Association Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

General Chemistry

Analysis Batch: 300427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99949-1	B-15 8-10	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-99949-1	B-15 8-10	107	89	112	107
LB3 500-300539/2-A	Method Blank	107	93	111	108
LCS 500-300528/4	Lab Control Sample	98	104	100	102
LCS 500-300539/3-A	Lab Control Sample	96	104	100	102
MB 500-300528/7	Method Blank	106	93	110	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (25-119)	NBZ (25-115)	TPH (36-134)
500-99949-1	B-15 8-10	53	53	69
LCS 500-300355/2-A	Lab Control Sample	68	71	74
MB 500-300355/1-A	Method Blank	78	85	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			08/19/15 00:05	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			08/19/15 00:05	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			08/19/15 00:05	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			08/19/15 00:05	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			08/19/15 00:05	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			08/19/15 00:05	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			08/19/15 00:05	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			08/19/15 00:05	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			08/19/15 00:05	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			08/19/15 00:05	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			08/19/15 00:05	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			08/19/15 00:05	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			08/19/15 00:05	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			08/19/15 00:05	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			08/19/15 00:05	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			08/19/15 00:05	1
Benzene	<0.074		0.25	0.074	ug/Kg			08/19/15 00:05	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			08/19/15 00:05	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			08/19/15 00:05	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			08/19/15 00:05	1
Bromoform	<0.44		2.0	0.44	ug/Kg			08/19/15 00:05	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			08/19/15 00:05	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			08/19/15 00:05	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			08/19/15 00:05	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			08/19/15 00:05	1
Chloroform	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			08/19/15 00:05	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			08/19/15 00:05	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			08/19/15 00:05	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			08/19/15 00:05	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			08/19/15 00:05	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			08/19/15 00:05	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			08/19/15 00:05	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			08/19/15 00:05	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			08/19/15 00:05	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			08/19/15 00:05	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			08/19/15 00:05	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			08/19/15 00:05	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			08/19/15 00:05	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			08/19/15 00:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300528/7
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			08/19/15 00:05	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			08/19/15 00:05	1
Styrene	<0.099		1.0	0.099	ug/Kg			08/19/15 00:05	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			08/19/15 00:05	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			08/19/15 00:05	1
Toluene	<0.12		0.25	0.12	ug/Kg			08/19/15 00:05	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			08/19/15 00:05	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			08/19/15 00:05	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			08/19/15 00:05	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			08/19/15 00:05	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			08/19/15 00:05	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			08/19/15 00:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*		*08/19/15 00:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*08/19/15 00:05*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*08/19/15 00:05*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/19/15 00:05*	*1*

Lab Sample ID: LCS 500-300528/4
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	43.2		ug/Kg		86	70 - 124
1,1,1-Trichloroethane	50.0	37.1		ug/Kg		74	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	68 - 133
1,1,2-Trichloroethane	50.0	43.3		ug/Kg		87	70 - 125
1,1-Dichloroethane	50.0	38.9		ug/Kg		78	70 - 127
1,1-Dichloroethene	50.0	36.8		ug/Kg		74	68 - 121
1,1-Dichloropropene	50.0	39.5		ug/Kg		79	70 - 126
1,2,3-Trichlorobenzene	50.0	45.3		ug/Kg		91	70 - 133
1,2,3-Trichloropropane	53.0	44.8		ug/Kg		90	53 - 139
1,2,4-Trichlorobenzene	50.0	41.9		ug/Kg		84	70 - 125
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/Kg		87	59 - 139
1,2-Dibromoethane	50.0	41.6		ug/Kg		83	70 - 124
1,2-Dichlorobenzene	50.0	43.9		ug/Kg		88	70 - 123
1,2-Dichloroethane	50.0	37.3		ug/Kg		75	66 - 132
1,2-Dichloropropane	50.0	40.5		ug/Kg		81	70 - 127
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 129
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	70 - 122
1,3-Dichloropropane	50.0	43.2		ug/Kg		86	70 - 127
1,4-Dichlorobenzene	50.0	43.1		ug/Kg		86	70 - 120
2,2-Dichloropropane	50.0	37.0		ug/Kg		74	68 - 120
2-Chlorotoluene	50.0	46.0		ug/Kg		92	70 - 128
4-Chlorotoluene	50.0	46.2		ug/Kg		92	70 - 127
Benzene	50.0	39.6		ug/Kg		79	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300528/4
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	42.5		ug/Kg		85	70 - 120
Bromochloromethane	50.0	39.6		ug/Kg		79	70 - 121
Bromodichloromethane	50.0	38.8		ug/Kg		78	70 - 127
Bromoform	50.0	44.1		ug/Kg		88	70 - 135
Bromomethane	50.0	35.8		ug/Kg		72	30 - 170
Carbon tetrachloride	50.0	36.8		ug/Kg		74	70 - 136
Chlorobenzene	50.0	41.7		ug/Kg		83	70 - 120
Chloroethane	50.0	43.1		ug/Kg		86	40 - 150
Chloroform	50.0	37.1		ug/Kg		74	70 - 120
Chloromethane	50.0	44.2		ug/Kg		88	45 - 140
cis-1,2-Dichloroethene	50.0	38.5		ug/Kg		77	70 - 120
cis-1,3-Dichloropropene	50.0	40.4		ug/Kg		81	70 - 122
Dibromochloromethane	50.0	42.6		ug/Kg		85	70 - 120
Dibromomethane	50.0	37.7		ug/Kg		75	70 - 120
Dichlorodifluoromethane	50.0	41.6		ug/Kg		83	30 - 150
Ethylbenzene	50.0	44.5		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	40.1		ug/Kg		80	70 - 138
Isopropylbenzene	50.0	44.5		ug/Kg		89	70 - 132
Methyl tert-butyl ether	50.0	37.9		ug/Kg		76	65 - 120
Methylene Chloride	50.0	40.7		ug/Kg		81	70 - 120
Naphthalene	50.0	43.1		ug/Kg		86	50 - 143
n-Butylbenzene	50.0	45.3		ug/Kg		91	70 - 129
N-Propylbenzene	50.0	46.1		ug/Kg		92	70 - 132
p-Isopropyltoluene	50.0	45.0		ug/Kg		90	70 - 133
sec-Butylbenzene	50.0	45.7		ug/Kg		91	70 - 134
Styrene	50.0	47.7		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	46.8		ug/Kg		94	70 - 137
Tetrachloroethene	50.0	38.5		ug/Kg		77	70 - 129
Toluene	50.0	41.8		ug/Kg		84	70 - 120
trans-1,2-Dichloroethene	50.0	38.5		ug/Kg		77	70 - 120
trans-1,3-Dichloropropene	50.0	42.5		ug/Kg		85	70 - 123
Trichloroethene	50.0	39.4		ug/Kg		79	70 - 122
Trichlorofluoromethane	50.0	39.6		ug/Kg		79	65 - 134
Vinyl chloride	50.0	43.6		ug/Kg		87	63 - 127
Xylenes, Total	100	92.3		ug/Kg		92	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 125
4-Bromofluorobenzene (Surr)	104		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: LB3 500-300539/2-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300539

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		08/18/15 16:21	08/19/15 06:05	50

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-300539/2-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300539

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<13		50	10	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,1-Dichloroethene	<15		50	15	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,1-Dichloropropene	<17		50	17	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2-Dibromoethane	<16		100	16	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2-Dichloroethane	<14		50	14	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
2,2-Dichloropropane	<16		50	16	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
2-Chlorotoluene	<10		50	10	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Benzene	<3.7		13	3.7	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Bromobenzene	<21		100	21	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Bromochloromethane	<19		100	19	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Bromodichloromethane	<17		100	17	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Bromoform	<22		100	22	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Bromomethane	<34		100	34	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Carbon tetrachloride	<13		50	13	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Chloroethane	<22		100	22	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Chloroform	<10		50	10	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Chloromethane	<23		100	23	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Dibromochloromethane	<17		100	17	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Dibromomethane	<24		100	24	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Hexachlorobutadiene	<17		100	17	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Isopropylbenzene	<13		100	13	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Methylene Chloride	<34		250	34	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Naphthalene	<25		100	25	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		08/18/15 16:21	08/19/15 06:05	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-300539/2-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300539

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Styrene	<4.9		50	4.9	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Toluene	<5.8		13	5.8	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Trichloroethene	<9.3		25	9.3	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Trichlorofluoromethane	<21		100	21	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		08/18/15 16:21	08/19/15 06:05	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		08/18/15 16:21	08/19/15 06:05	50

Surrogate	LB3 %Recovery	LB3 Qualifier	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*08/18/15 16:21*	*08/19/15 06:05*	*50*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*	*08/18/15 16:21*	*08/19/15 06:05*	*50*
Dibromofluoromethane	*111*		*75 - 120*	*08/18/15 16:21*	*08/19/15 06:05*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*08/18/15 16:21*	*08/19/15 06:05*	*50*

Lab Sample ID: LCS 500-300539/3-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2560		ug/Kg		106	70 - 124
1,1,1-Trichloroethane	2500	2550		ug/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	2500	2530		ug/Kg		101	68 - 133
1,1,2-Trichloroethane	2500	2670		ug/Kg		107	70 - 125
1,1-Dichloroethane	2500	2640		ug/Kg		106	70 - 127
1,1-Dichloroethene	2500	2660		ug/Kg		107	68 - 121
1,1-Dichloropropene	2500	2760		ug/Kg		110	70 - 126
1,2,3-Trichlorobenzene	2500	2540		ug/Kg		102	70 - 133
1,2,3-Trichloropropane	2500	2480		ug/Kg		99	53 - 133
1,2,4-Trichlorobenzene	2500	2290		ug/Kg		92	70 - 125
1,2,4-Trimethylbenzene	2500	2910		ug/Kg		116	70 - 127
1,2-Dibromo-3-Chloropropane	2500	2490		ug/Kg		100	59 - 139
1,2-Dibromoethane	2500	2580		ug/Kg		103	70 - 124
1,2-Dichlorobenzene	2500	2570		ug/Kg		103	70 - 123
1,2-Dichloroethane	2500	2430		ug/Kg		97	66 - 132
1,2-Dichloropropane	2500	2680		ug/Kg		107	70 - 127
1,3,5-Trimethylbenzene	2500	2930		ug/Kg		117	70 - 129
1,3-Dichlorobenzene	2500	2570		ug/Kg		103	70 - 122
1,3-Dichloropropane	2500	2650		ug/Kg		106	70 - 127
1,4-Dichlorobenzene	2500	2530		ug/Kg		101	70 - 120
2,2-Dichloropropane	2500	2480		ug/Kg		99	68 - 120
2-Chlorotoluene	2500	2820		ug/Kg		113	70 - 128
4-Chlorotoluene	2500	2810		ug/Kg		112	70 - 127
Benzene	2500	2700		ug/Kg		108	70 - 120
Bromobenzene	2500	2580		ug/Kg		103	70 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300539/3-A
Matrix: Solid
Analysis Batch: 300528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	2500	2660		ug/Kg		107	70 - 121
Bromodichloromethane	2500	2470		ug/Kg		99	70 - 127
Bromoform	2500	2510		ug/Kg		100	70 - 135
Bromomethane	2500	1800		ug/Kg		72	30 - 170
Carbon tetrachloride	2500	2590		ug/Kg		104	70 - 136
Chlorobenzene	2500	2640		ug/Kg		106	70 - 120
Chloroethane	2500	2310		ug/Kg		92	40 - 150
Chloroform	2500	2490		ug/Kg		100	70 - 120
Chloromethane	2500	1890		ug/Kg		76	45 - 140
cis-1,2-Dichloroethene	2500	2600		ug/Kg		104	70 - 120
cis-1,3-Dichloropropene	2500	2600		ug/Kg		104	70 - 122
Dibromochloromethane	2500	2560		ug/Kg		102	70 - 120
Dibromomethane	2500	2430		ug/Kg		97	70 - 120
Dichlorodifluoromethane	2500	1260		ug/Kg		50	30 - 150
Ethylbenzene	2500	2880		ug/Kg		115	70 - 125
Hexachlorobutadiene	2500	2650		ug/Kg		106	70 - 138
Isopropylbenzene	2500	2860		ug/Kg		114	70 - 132
Methyl tert-butyl ether	2500	2490		ug/Kg		99	65 - 120
Methylene Chloride	2500	2730		ug/Kg		109	70 - 120
Naphthalene	2500	2320		ug/Kg		93	59 - 143
n-Butylbenzene	2500	2810		ug/Kg		112	70 - 129
N-Propylbenzene	2500	2910		ug/Kg		116	70 - 132
p-Isopropyltoluene	2500	2870		ug/Kg		115	70 - 133
sec-Butylbenzene	2500	2950		ug/Kg		118	70 - 134
Styrene	2500	2950		ug/Kg		119	70 - 120
tert-Butylbenzene	2500	2930		ug/Kg		117	70 - 137
Tetrachloroethene	2500	2580		ug/Kg		103	70 - 129
Toluene	2500	2770		ug/Kg		111	70 - 120
trans-1,2-Dichloroethene	2500	2690		ug/Kg		108	70 - 120
trans-1,3-Dichloropropene	2500	2670		ug/Kg		107	70 - 123
Trichloroethene	2500	2660		ug/Kg		106	70 - 122
Trichlorofluoromethane	2500	2160		ug/Kg		87	65 - 134
Vinyl chloride	2500	2090		ug/Kg		83	63 - 127
Xylenes, Total	5000	5890		ug/Kg		118	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-300355/1-A
Matrix: Solid
Analysis Batch: 300641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
2-Methylnaphthalene	<8.1		33	8.1	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Acenaphthene	<5.0		33	5.0	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Anthracene	<5.6		33	5.6	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Benzo[g,h,i]perylene	<4.1		33	4.1	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Chrysene	<9.1		33	9.1	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Fluorene	<4.7		33	4.7	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/17/15 17:02	08/19/15 11:21	1
Pyrene	<6.6		33	6.6	ug/Kg		08/17/15 17:02	08/19/15 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 115	08/17/15 17:02	08/19/15 11:21	1
Nitrobenzene-d5 (Surr)	85		25 - 115	08/17/15 17:02	08/19/15 11:21	1
Terphenyl-d14 (Surr)	83		46 - 134	08/17/15 17:02	08/19/15 11:21	1

Lab Sample ID: LCS 500-300355/2-A
Matrix: Solid
Analysis Batch: 300641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	932		ug/Kg		70	50 - 110
2-Methylnaphthalene	1330	947		ug/Kg		71	48 - 110
Acenaphthene	1330	946		ug/Kg		66	46 - 110
Acenaphthylene	1330	969		ug/Kg		73	49 - 110
Anthracene	1330	993		ug/Kg		74	48 - 118
Benzo[a]anthracene	1330	971		ug/Kg		73	49 - 121
Benzo[a]pyrene	1330	1010		ug/Kg		76	53 - 122
Benzo[b]fluoranthene	1330	1010		ug/Kg		76	54 - 122
Benzo[g,h,i]perylene	1330	1040		ug/Kg		78	52 - 125
Benzo[k]fluoranthene	1330	1030		ug/Kg		77	44 - 137
Chrysene	1330	1020		ug/Kg		77	45 - 119
Dibenz(a,h)anthracene	1330	1010		ug/Kg		76	48 - 134
Fluoranthene	1330	987		ug/Kg		74	48 - 125
Fluorene	1330	968		ug/Kg		72	47 - 127
Indeno[1,2,3-cd]pyrene	1330	1050		ug/Kg		79	49 - 132
Naphthalene	1330	946		ug/Kg		71	45 - 110
Phenanthrene	1330	991		ug/Kg		74	48 - 121
Pyrene	1330	1000		ug/Kg		75	46 - 114

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300355/2-A
Matrix: Solid
Analysis Batch: 300641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300355

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	68		25 - 115
Nitrobenzene-d5 (Surr)	71		25 - 115
Terphenyl-d14 (Surr)	74		46 - 134

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-300555/1-A
Matrix: Solid
Analysis Batch: 300837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		08/18/15 17:39	08/20/15 02:16	1
Cadmium	0.0706	J	0.20	0.043	mg/Kg		08/18/15 17:39	08/20/15 02:16	1
Lead	<0.25		0.50	0.25	mg/Kg		08/18/15 17:39	08/20/15 02:16	1

Lab Sample ID: LCS 500-300555/2-A
Matrix: Solid
Analysis Batch: 300837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	101		mg/Kg		101	80 - 120
Cadmium	5.00	5.04		mg/Kg		101	80 - 120
Lead	100	103		mg/Kg		103	80 - 120

Lab Sample ID: 500-99949-1 MS
Matrix: Solid
Analysis Batch: 300837

Client Sample ID: B-15 8-10
Prep Type: Total/NA
Prep Batch: 300555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.7		13.0	20.1		mg/Kg		96	75 - 125
Cadmium	0.58	B	6.48	6.48		mg/Kg		91	75 - 125
Lead	67		13.0	80.6	4	mg/Kg		105	75 - 125

Lab Sample ID: 500-99949-1 MSD
Matrix: Solid
Analysis Batch: 300837

Client Sample ID: B-15 8-10
Prep Type: Total/NA
Prep Batch: 300555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.7		11.4	18.9		mg/Kg		93	75 - 125	6	20
Cadmium	0.58	B	5.70	5.73		mg/Kg		90	75 - 125	12	20
Lead	67		11.4	77.2	4	mg/Kg		90	75 - 125	4	20

Lab Sample ID: 500-99949-1 DU
Matrix: Solid
Analysis Batch: 300837

Client Sample ID: B-15 8-10
Prep Type: Total/NA
Prep Batch: 300555

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	7.7		8.75		mg/Kg		13	20
Cadmium	0.58	B	0.642		mg/Kg		10	20

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99949-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-99949-1 DU
Matrix: Solid
Analysis Batch: 300837

Client Sample ID: B-15 8-10
Prep Type: Total/NA
Prep Batch: 300555

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	67	*	91.3	F3	mg/Kg	☼	31	20

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99949-1

Client Sample ID: B-15 8-10
Date Collected: 08/14/15 09:00
Date Received: 08/15/15 10:55

Lab Sample ID: 500-99949-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	300427	08/18/15 08:59	LWN	TAL CHI

Client Sample ID: B-15 8-10
Date Collected: 08/14/15 09:00
Date Received: 08/15/15 10:55

Lab Sample ID: 500-99949-1
Matrix: Solid
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			300539	08/14/15 09:00	EMA	TAL CHI
Total/NA	Analysis	8260B		50	300528	08/19/15 06:33	EMA	TAL CHI
Total/NA	Prep	3541			300355	08/17/15 17:02	DEA	TAL CHI
Total/NA	Analysis	8270D		1	300798	08/19/15 23:31	D_H	TAL CHI
Total/NA	Prep	3050B			300555	08/18/15 17:39	P_H	TAL CHI
Total/NA	Analysis	6010C		1	300837	08/20/15 02:25	P_1	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99949-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

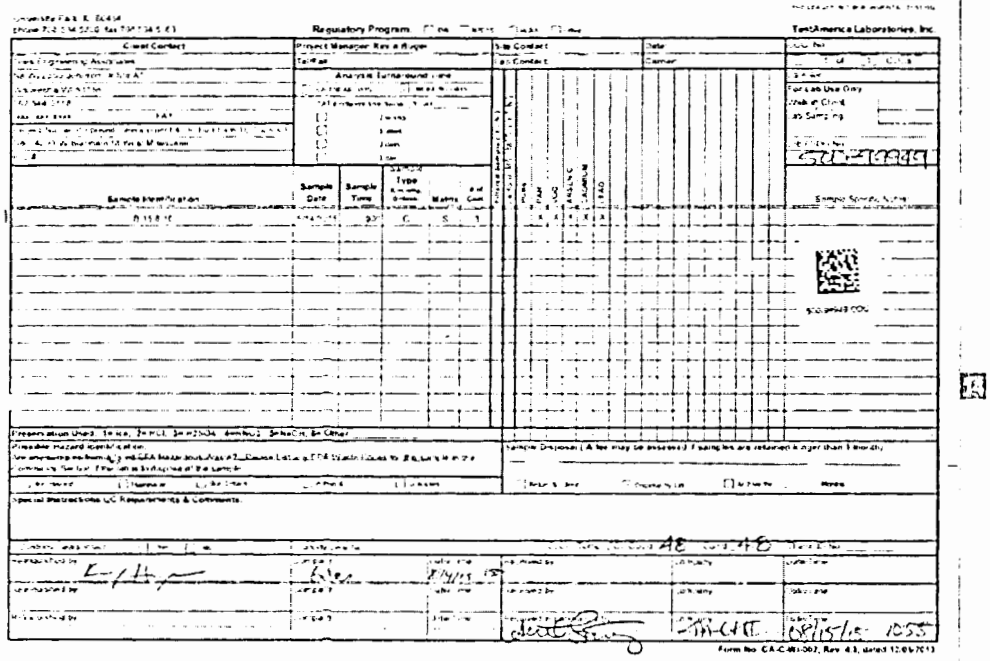
* Certification renewal pending - certification considered valid

TestAmerica Chicago

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.



Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 500-99949-1

Login Number: 99949
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-99818-1
Client Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

For:
Giles Engineering Associates
N8 W 22350 Johnson Road
Waukesha, Wisconsin 53186

Attn: Mr. Kevin Bugel

Sandie Fredrick

Authorized for release by:
8/18/2015 2:39:20 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99818-1

Job ID: 500-99818-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-99818-1

Comments
No additional comments

Receipt
The samples were received on 8/13/2015 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-1 — Lab Sample ID: 500-99818-1
No Detections

Client Sample ID: TW-2 — Lab Sample ID: 500-99818-2
No Detections

Client Sample ID: TW-3 — Lab Sample ID: 500-99818-3
No Detections

Client Sample ID: TW-5 — Lab Sample ID: 500-99818-4
No Detections

Client Sample ID: TW-6 — Lab Sample ID: 500-99818-5
No Detections

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-99818-6
No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99818-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-99818-1	TW-1	Water	08/11/15 13:00	08/13/15 10:30
500-99818-2	TW-2	Water	08/11/15 12:50	08/13/15 10:30
500-99818-3	TW-3	Water	08/11/15 12:40	08/13/15 10:30
500-99818-4	TW-5	Water	08/11/15 12:25	08/13/15 10:30
500-99818-5	TW-6	Water	08/12/15 12:18	08/13/15 10:30
500-99818-6	TRIP BLANK	Water	08/12/15 00:00	08/13/15 10:30

Client Sample ID: TW-1
Date Collected: 08/11/15 13:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/17/15 23:50	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/17/15 23:50	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/17/15 23:50	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			08/17/15 23:50	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/17/15 23:50	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/17/15 23:50	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/17/15 23:50	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/17/15 23:50	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/17/15 23:50	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/17/15 23:50	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:50	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/17/15 23:50	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/17/15 23:50	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/17/15 23:50	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/17/15 23:50	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/17/15 23:50	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/17/15 23:50	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/17/15 23:50	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/17/15 23:50	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/17/15 23:50	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/17/15 23:50	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/17/15 23:50	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/17/15 23:50	1
Benzene	<0.074		0.50	0.074	ug/L			08/17/15 23:50	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/17/15 23:50	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/17/15 23:50	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/17/15 23:50	1
Bromoform	<0.28		1.0	0.28	ug/L			08/17/15 23:50	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/17/15 23:50	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/17/15 23:50	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:50	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/17/15 23:50	1
Chloroform	<0.20		1.0	0.20	ug/L			08/17/15 23:50	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/17/15 23:50	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/17/15 23:50	1
cis-1,3-Dichloropropene	<0.19		1.0	0.19	ug/L			08/17/15 23:50	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/17/15 23:50	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/17/15 23:50	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/17/15 23:50	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/17/15 23:50	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/17/15 23:50	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/17/15 23:50	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:50	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/17/15 23:50	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/17/15 23:50	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/17/15 23:50	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/17/15 23:50	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/17/15 23:50	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/17/15 23:50	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-1
Date Collected: 08/11/15 13:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/17/15 23:50	1
Styrene	<0.10		1.0	0.10	ug/L			08/17/15 23:50	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:50	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/17/15 23:50	1
Toluene	<0.11		0.50	0.11	ug/L			08/17/15 23:50	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/17/15 23:50	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/17/15 23:50	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/17/15 23:50	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/17/15 23:50	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/17/15 23:50	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			08/17/15 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*		*08/17/15 23:50*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*08/17/15 23:50*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/17/15 23:50*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*08/17/15 23:50*	*1*

Client Sample ID: TW-2
Date Collected: 08/11/15 12:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/18/15 00:18	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/18/15 00:18	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/18/15 00:18	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 00:18	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/18/15 00:18	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/18/15 00:18	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/18/15 00:18	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/18/15 00:18	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/18/15 00:18	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/18/15 00:18	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:18	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/18/15 00:18	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/18/15 00:18	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/18/15 00:18	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 00:18	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/18/15 00:18	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/18/15 00:18	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 00:18	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/18/15 00:18	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 00:18	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/18/15 00:18	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/18/15 00:18	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/18/15 00:18	1
Benzene	<0.074		0.50	0.074	ug/L			08/18/15 00:18	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/18/15 00:18	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/18/15 00:18	1

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-2
Date Collected: 08/11/15 12:50
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/18/15 00:18	1
Bromoform	<0.28		1.0	0.28	ug/L			08/18/15 00:18	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/18/15 00:18	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/18/15 00:18	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:18	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/18/15 00:18	1
Chloroform	<0.20		1.0	0.20	ug/L			08/18/15 00:18	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/18/15 00:18	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/18/15 00:18	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			08/18/15 00:18	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/18/15 00:18	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/18/15 00:18	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/18/15 00:18	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/18/15 00:18	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/18/15 00:18	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/18/15 00:18	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:18	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/18/15 00:18	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/18/15 00:18	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/18/15 00:18	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 00:18	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 00:18	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/18/15 00:18	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/18/15 00:18	1
Styrene	<0.10		1.0	0.10	ug/L			08/18/15 00:18	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:18	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/18/15 00:18	1
Toluene	<0.11		0.50	0.11	ug/L			08/18/15 00:18	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/18/15 00:18	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/18/15 00:18	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/18/15 00:18	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/18/15 00:18	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/18/15 00:18	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			08/18/15 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 125*		*08/18/15 00:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*08/18/15 00:18*	*1*
Dibromofluoromethane	*115*		*75 - 120*		*08/18/15 00:18*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/18/15 00:18*	*1*

Client Sample ID: TW-3
Date Collected: 08/11/15 12:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/18/15 00:45	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/18/15 00:45	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/18/15 00:45	1

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-3
Date Collected: 08/11/15 12:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 00:45	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/18/15 00:45	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/18/15 00:45	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/18/15 00:45	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/18/15 00:45	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/18/15 00:45	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/18/15 00:45	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:45	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/18/15 00:45	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/18/15 00:45	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/18/15 00:45	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 00:45	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/18/15 00:45	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/18/15 00:45	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 00:45	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/18/15 00:45	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 00:45	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/18/15 00:45	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/18/15 00:45	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/18/15 00:45	1
Benzene	<0.074		0.50	0.074	ug/L			08/18/15 00:45	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/18/15 00:45	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/18/15 00:45	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/18/15 00:45	1
Bromoform	<0.28		1.0	0.28	ug/L			08/18/15 00:45	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/18/15 00:45	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/18/15 00:45	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:45	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/18/15 00:45	1
Chloroform	<0.20		1.0	0.20	ug/L			08/18/15 00:45	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/18/15 00:45	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/18/15 00:45	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			08/18/15 00:45	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/18/15 00:45	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/18/15 00:45	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/18/15 00:45	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/18/15 00:45	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/18/15 00:45	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/18/15 00:45	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:45	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/18/15 00:45	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/18/15 00:45	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/18/15 00:45	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 00:45	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 00:45	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/18/15 00:45	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/18/15 00:45	1
Styrene	<0.10		1.0	0.10	ug/L			08/18/15 00:45	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 00:45	1

Client Sample ID: TW-3
Date Collected: 08/11/15 12:40
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/18/15 00:45	1
Toluene	<0.11		0.50	0.11	ug/L			08/18/15 00:45	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/18/15 00:45	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/18/15 00:45	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/18/15 00:45	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/18/15 00:45	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/18/15 00:45	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			08/18/15 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*		*08/18/15 00:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*08/18/15 00:45*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/18/15 00:45*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*08/18/15 00:45*	*1*

Client Sample ID: TW-5
Date Collected: 08/11/15 12:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/18/15 01:13	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/18/15 01:13	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/18/15 01:13	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 01:13	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/18/15 01:13	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/18/15 01:13	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/18/15 01:13	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/18/15 01:13	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/18/15 01:13	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/18/15 01:13	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:13	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/18/15 01:13	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/18/15 01:13	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/18/15 01:13	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 01:13	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/18/15 01:13	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/18/15 01:13	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 01:13	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/18/15 01:13	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 01:13	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/18/15 01:13	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/18/15 01:13	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/18/15 01:13	1
Benzene	<0.074		0.50	0.074	ug/L			08/18/15 01:13	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/18/15 01:13	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/18/15 01:13	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/18/15 01:13	1
Bromoform	<0.28		1.0	0.28	ug/L			08/18/15 01:13	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/18/15 01:13	1

Client Sample ID: TW-5
Date Collected: 08/11/15 12:25
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/18/15 01:13	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:13	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/18/15 01:13	1
Chloroform	<0.20		1.0	0.20	ug/L			08/18/15 01:13	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/18/15 01:13	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/18/15 01:13	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			08/18/15 01:13	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/18/15 01:13	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/18/15 01:13	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/18/15 01:13	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/18/15 01:13	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/18/15 01:13	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/18/15 01:13	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:13	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/18/15 01:13	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/18/15 01:13	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/18/15 01:13	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 01:13	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 01:13	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/18/15 01:13	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/18/15 01:13	1
Styrene	<0.10		1.0	0.10	ug/L			08/18/15 01:13	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:13	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/18/15 01:13	1
Toluene	<0.11		0.50	0.11	ug/L			08/18/15 01:13	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/18/15 01:13	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/18/15 01:13	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/18/15 01:13	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/18/15 01:13	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/18/15 01:13	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			08/18/15 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*		*08/18/15 01:13*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*08/18/15 01:13*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/18/15 01:13*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/18/15 01:13*	*1*

Client Sample ID: TW-6
Date Collected: 08/12/15 12:18
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/18/15 01:41	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/18/15 01:41	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/18/15 01:41	1
1,1,2-Trichloroethane	<0.25		1.0	0.28	ug/L			08/18/15 01:41	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/18/15 01:41	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/18/15 01:41	1

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-6
Date Collected: 08/12/15 12:18
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/18/15 01:41	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/18/15 01:41	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/18/15 01:41	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/18/15 01:41	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:41	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/18/15 01:41	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/18/15 01:41	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/18/15 01:41	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/18/15 01:41	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/18/15 01:41	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/18/15 01:41	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 01:41	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/18/15 01:41	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/18/15 01:41	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/18/15 01:41	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/18/15 01:41	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/18/15 01:41	1
Benzene	<0.074		0.50	0.074	ug/L			08/18/15 01:41	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/18/15 01:41	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/18/15 01:41	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/18/15 01:41	1
Bromoform	<0.28		1.0	0.28	ug/L			08/18/15 01:41	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/18/15 01:41	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/18/15 01:41	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:41	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/18/15 01:41	1
Chloroform	<0.20		1.0	0.20	ug/L			08/18/15 01:41	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/18/15 01:41	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/18/15 01:41	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			08/18/15 01:41	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/18/15 01:41	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/18/15 01:41	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/18/15 01:41	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/18/15 01:41	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/18/15 01:41	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/18/15 01:41	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:41	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/18/15 01:41	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/18/15 01:41	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/18/15 01:41	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 01:41	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/18/15 01:41	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/18/15 01:41	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/18/15 01:41	1
Styrene	<0.10		1.0	0.10	ug/L			08/18/15 01:41	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/18/15 01:41	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/18/15 01:41	1
Toluene	<0.11		0.50	0.11	ug/L			08/18/15 01:41	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/18/15 01:41	1

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-6
Date Collected: 08/12/15 12:18
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/18/15 01:41	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/18/15 01:41	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/18/15 01:41	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/18/15 01:41	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			08/18/15 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	108		75 - 125		08/18/15 01:41	1
4-Bromofluorobenzene (Surr)	94		75 - 120		08/18/15 01:41	1
Dibromofluoromethane	109		75 - 120		08/18/15 01:41	1
Toluene-d8 (Surr)	107		75 - 120		08/18/15 01:41	1

Client Sample ID: TRIP BLANK
Date Collected: 08/12/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/17/15 23:23	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/17/15 23:23	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/17/15 23:23	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			08/17/15 23:23	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/17/15 23:23	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/17/15 23:23	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/17/15 23:23	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/17/15 23:23	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/17/15 23:23	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/17/15 23:23	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:23	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/17/15 23:23	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/17/15 23:23	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/17/15 23:23	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/17/15 23:23	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/17/15 23:23	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/17/15 23:23	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/17/15 23:23	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/17/15 23:23	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/17/15 23:23	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/17/15 23:23	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/17/15 23:23	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/17/15 23:23	1
Benzene	<0.074		0.50	0.074	ug/L			08/17/15 23:23	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/17/15 23:23	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/17/15 23:23	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/17/15 23:23	1
Bromoform	<0.28		1.0	0.28	ug/L			08/17/15 23:23	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/17/15 23:23	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/17/15 23:23	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:23	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/17/15 23:23	1

Client Sample ID: TRIP BLANK
Date Collected: 08/12/15 00:00
Date Received: 08/13/15 10:30

Lab Sample ID: 500-99818-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.20		1.0	0.20	ug/L			08/17/15 23:23	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/17/15 23:23	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/17/15 23:23	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			08/17/15 23:23	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/17/15 23:23	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/17/15 23:23	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/17/15 23:23	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/17/15 23:23	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/17/15 23:23	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/17/15 23:23	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:23	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/17/15 23:23	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/17/15 23:23	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/17/15 23:23	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/17/15 23:23	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/17/15 23:23	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/17/15 23:23	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/17/15 23:23	1
Styrene	<0.10		1.0	0.10	ug/L			08/17/15 23:23	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 23:23	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/17/15 23:23	1
Toluene	<0.11		0.50	0.11	ug/L			08/17/15 23:23	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/17/15 23:23	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/17/15 23:23	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/17/15 23:23	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/17/15 23:23	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/17/15 23:23	1
Xylenes, Total	<0.058		1.0	0.058	ug/L			08/17/15 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*08/17/15 23:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*08/17/15 23:23*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/17/15 23:23*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/17/15 23:23*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
#	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99818-1

GC/MS VOA

Analysis Batch: 300341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99818-1	TW-1	Total/NA	Water	8260B	
500-99818-2	TW-2	Total/NA	Water	8260B	
500-99818-3	TW-3	Total/NA	Water	8260B	
500-99818-4	TW-5	Total/NA	Water	8260B	
500-99818-5	TW-6	Total/NA	Water	8260B	
500-99818-6	TRIP BLANK	Total/NA	Water	8260B	
LCS 500-300341/7	Lab Control Sample	Total/NA	Water	8260B	
MB 500-300341/9	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-99818-1	TW-1	109	92	109	108
500-99818-2	TW-2	122	96	115	107
500-99818-3	TW-3	107	92	109	108
500-99818-4	TW-5	108	93	109	107
500-99818-5	TW-6	108	94	109	107
500-99818-6	TRIP BLANK	104	93	107	106
LCS 500-300341/7	Lab Control Sample	99	106	100	104
MB 500-300341/9	Method Blank	106	95	108	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-300341/9
Matrix: Water
Analysis Batch: 300341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			08/17/15 22:55	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			08/17/15 22:55	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			08/17/15 22:55	1
1,1,2-Trichloroethane	<0.29		1.0	0.29	ug/L			08/17/15 22:55	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			08/17/15 22:55	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			08/17/15 22:55	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			08/17/15 22:55	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			08/17/15 22:55	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			08/17/15 22:55	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			08/17/15 22:55	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 22:55	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			08/17/15 22:55	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			08/17/15 22:55	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			08/17/15 22:55	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			08/17/15 22:55	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			08/17/15 22:55	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			08/17/15 22:55	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/17/15 22:55	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			08/17/15 22:55	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			08/17/15 22:55	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			08/17/15 22:55	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			08/17/15 22:55	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			08/17/15 22:55	1
Benzene	<0.074		0.50	0.074	ug/L			08/17/15 22:55	1
Bromobenzene	<0.25		1.0	0.25	ug/L			08/17/15 22:55	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			08/17/15 22:55	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			08/17/15 22:55	1
Bromoform	<0.28		1.0	0.28	ug/L			08/17/15 22:55	1
Bromomethane	<0.31		1.0	0.31	ug/L			08/17/15 22:55	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			08/17/15 22:55	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			08/17/15 22:55	1
Chloroethane	<0.34		1.0	0.34	ug/L			08/17/15 22:55	1
Chloroform	<0.20		1.0	0.20	ug/L			08/17/15 22:55	1
Chloromethane	<0.18		1.0	0.18	ug/L			08/17/15 22:55	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			08/17/15 22:55	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			08/17/15 22:55	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			08/17/15 22:55	1
Dibromomethane	<0.33		1.0	0.33	ug/L			08/17/15 22:55	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			08/17/15 22:55	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			08/17/15 22:55	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			08/17/15 22:55	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			08/17/15 22:55	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 22:55	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			08/17/15 22:55	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			08/17/15 22:55	1
Naphthalene	<0.16		1.0	0.16	ug/L			08/17/15 22:55	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			08/17/15 22:55	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			08/17/15 22:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-300341/9
Matrix: Water
Analysis Batch: 300341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			08/17/15 22:55	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			08/17/15 22:55	1
Styrene	<0.10		1.0	0.10	ug/L			08/17/15 22:55	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			08/17/15 22:55	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			08/17/15 22:55	1
Toluene	<0.11		0.50	0.11	ug/L			08/17/15 22:55	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			08/17/15 22:55	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			08/17/15 22:55	1
Trichloroethene	<0.19		0.50	0.19	ug/L			08/17/15 22:55	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			08/17/15 22:55	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			08/17/15 22:55	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			08/17/15 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*		*08/17/15 22:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*08/17/15 22:55*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*08/17/15 22:55*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/17/15 22:55*	*1*

Lab Sample ID: LCS 500-300341/7
Matrix: Water
Analysis Batch: 300341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/L		102	70 - 124
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	70 - 125
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	69 - 133
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	70 - 125
1,1-Dichloroethane	50.0	48.1		ug/L		96	70 - 127
1,1-Dichloroethene	50.0	47.3		ug/L		95	68 - 121
1,1-Dichloropropene	50.0	50.1		ug/L		100	70 - 126
1,2,3-Trichlorobenzene	50.0	55.0		ug/L		110	70 - 133
1,2,3-Trichloropropane	50.0	51.5		ug/L		103	53 - 139
1,2,4-Trichlorobenzene	50.0	52.2		ug/L		104	70 - 125
1,2,4-Trimethylbenzene	50.0	57.0		ug/L		114	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	59 - 139
1,2-Dibromoethane	50.0	49.4		ug/L		99	70 - 124
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 123
1,2-Dichloroethane	50.0	45.9		ug/L		92	66 - 132
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 127
1,3,5-Trimethylbenzene	50.0	56.2		ug/L		112	70 - 129
1,3-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 122
1,3-Dichloropropane	50.0	51.2		ug/L		102	70 - 127
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 120
2,2-Dichloropropane	50.0	47.5		ug/L		95	69 - 120
2-Chlorotoluene	50.0	53.9		ug/L		108	70 - 128
4-Chlorotoluene	50.0	54.3		ug/L		109	70 - 127
Benzene	50.0	49.8		ug/L		98	70 - 120

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-300341/7
Matrix: Water
Analysis Batch: 300341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	50.0		ug/L		100	70 - 129
Bromochloromethane	50.0	49.1		ug/L		98	70 - 121
Bromodichloromethane	50.0	46.9		ug/L		94	70 - 127
Bromoform	50.0	50.7		ug/L		101	70 - 135
Bromomethane	50.0	38.5		ug/L		77	30 - 170
Carbon tetrachloride	50.0	47.2		ug/L		94	70 - 136
Chlorobenzene	50.0	49.2		ug/L		98	70 - 120
Chloroethane	50.0	44.7		ug/L		89	40 - 150
Chloroform	50.0	46.1		ug/L		92	70 - 120
Chloromethane	50.0	46.3		ug/L		93	45 - 140
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 120
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	70 - 122
Dibromochloromethane	50.0	49.5		ug/L		99	70 - 120
Dibromomethane	50.0	45.9		ug/L		92	70 - 120
Dichlorodifluoromethane	50.0	43.1		ug/L		86	30 - 150
Ethylbenzene	50.0	53.2		ug/L		106	70 - 125
Hexachlorobutadiene	50.0	49.3		ug/L		99	70 - 138
Isopropylbenzene	50.0	54.0		ug/L		108	70 - 132
Methyl tert-butyl ether	50.0	48.5		ug/L		97	65 - 120
Methylene Chloride	50.0	49.0		ug/L		98	70 - 120
Naphthalene	50.0	55.0		ug/L		110	59 - 143
n-Butylbenzene	50.0	56.1		ug/L		112	70 - 129
N-Propylbenzene	50.0	55.1		ug/L		110	70 - 132
p-Isopropyltoluene	50.0	54.9		ug/L		110	70 - 133
sec-Butylbenzene	50.0	55.5		ug/L		111	70 - 134
Styrene	50.0	56.0		ug/L		112	70 - 120
tert-Butylbenzene	50.0	56.5		ug/L		113	70 - 137
Tetrachloroethene	50.0	47.5		ug/L		95	70 - 129
Toluene	50.0	51.5		ug/L		103	70 - 120
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 120
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	70 - 123
Trichloroethene	50.0	49.8		ug/L		100	70 - 122
Trichlorofluoromethane	50.0	41.8		ug/L		84	65 - 134
Vinyl chloride	50.0	45.4		ug/L		91	63 - 127
Xylenes, Total	100	111		ug/L		111	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St - 1E-1508001

TestAmerica Job ID: 500-99818-1

Client Sample ID: TW-1 — **Lab Sample ID: 500-99818-1**
Date Collected: 08/11/15 13:00 — Matrix: Water
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300341	08/17/15 23:50	PMF	TAL CHI

Client Sample ID: TW-2 — **Lab Sample ID: 500-99818-2**
Date Collected: 08/11/15 12:50 — Matrix: Water
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300341	08/18/15 00:18	PMF	TAL CHI

Client Sample ID: TW-3 — **Lab Sample ID: 500-99818-3**
Date Collected: 08/11/15 12:40 — Matrix: Water
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300341	08/18/15 00:45	PMF	TAL CHI

Client Sample ID: TW-5 — **Lab Sample ID: 500-99818-4**
Date Collected: 08/11/15 12:25 — Matrix: Water
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300341	08/18/15 01:13	PMF	TAL CHI

Client Sample ID: TW-6 — **Lab Sample ID: 500-99818-5**
Date Collected: 08/12/15 12:18 — Matrix: Water
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300341	08/18/15 01:41	PMF	TAL CHI

Client Sample ID: TRIP BLANK — **Lab Sample ID: 500-99818-6**
Date Collected: 08/12/15 00:00 — Matrix: Water
Date Received: 08/13/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300341	08/17/15 23:23	PMF	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Giles Engineering Associates
Project/Site: Prop Devel 4200 Burnham St. - 1E-1508001

TestAmerica Job ID: 500-99818-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

* Certificaton renewal pending - certification considered valid

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TestAmerica Chicago
2417 Bond Street

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program:

Client Contact

Project Manager: Kevin Mager

Site Contact:

Date:

COC No

Analysis Turnaround Time

Project Name: Proposed Development 4200 Burnham St - 1508001

Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | Perform MS/MSD (Y/N) | PCBs | PAH | VOC | ARSENIC | CADMIUM | LEAD

TW 1 | 8/14/15 | 13:00 | G | W | 3 | X
TW 2 | | 12:50 | | | 3 | X
TW 3 | | 12:40 | | | 3 | X
TW 5 | 8/14/15 | 12:25 | | | 3 | X
[illegible] | | 12:18 | | | 3 | X
[illegible] BLANK | | | | | | X

Sample Specific Notes:

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Custody Seals Intact:

Relinquished by | Company | Date/Time | Received by | Company | Date/Time

8/13/15 1030

Form No. CA-C-WI-002, Rev. 4.3, dated 12/06/2013

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Login Sample Receipt Checklist

Client: Giles Engineering Associates

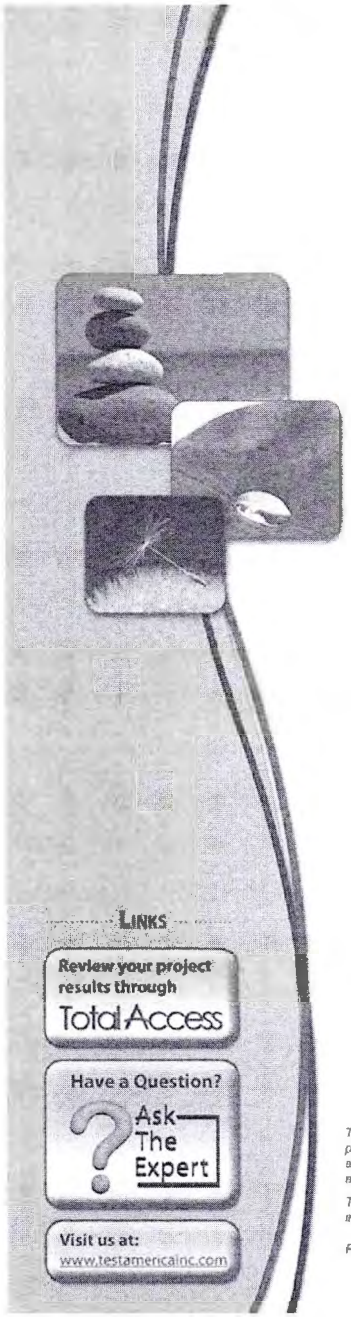
Job Number: 500-99818-1

Login Number: 99818
List Number: 1
Creator: James, Jeff A

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter	True	
The cooler's custody seal, if present, is intact	True	
Sample custody seals, if present, are intact	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice	True	
Cooler Temperature is acceptable	True	
Cooler Temperature is recorded	True	3.3
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC	True	
Samples are received within Holding Time	True	
Sample containers have legible labels	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4")	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-99813-1
Client Project/Site: Proposed Development

For:
Giles Engineering Associates
N8 W 22350 Johnson Road
Waukesha, Wisconsin 53186

Attn: Mr. Kevin Bugel

Sandie Fredrick

Authorized for release by:
8/17/2015 6:49:20 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Job ID: 500-99813-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-99813-1

Comments
No additional comments

Receipt
The samples were received on 8/13/2015 10 00 AM, the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 15 LL, TO-15 EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page

Detection Summary

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-1 — **Lab Sample ID: 500-99813-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2 3		0 20	0 030	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0 077	J	0 20	0 031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0 95		0 20	0 063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0 35		0 20	0 065	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0 55		0 20	0 065	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	2 1		0 20	0 064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	5 0		1 0	0 20	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	13	B	0 50	0 045	ppb v/v	1		TO-15	Total/NA
Acetone	260	E	5 0	1 4	ppb v/v	1		TO-15	Total/NA
Benzene	5 3		0 20	0 056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	5 6		0 50	0 031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0 086	J	0 20	0 038	ppb v/v	1		TO-15	Total/NA
Chlorobenzene	0 053	J	0 20	0 049	ppb v/v	1		TO-15	Total/NA
Chloroethane	0 089	J	0 80	0 035	ppb v/v	1		TO-15	Total/NA
Chloroform	0 061	J	0 20	0 039	ppb v/v	1		TO-15	Total/NA
Cyclohexane	5 4		0 50	0 040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0 38	J	0 50	0 068	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	2 0		0 20	0 068	ppb v/v	1		TO-15	Total/NA
Hexane	9 4		0 80	0 032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5 5		5 0	0 094	ppb v/v	1		TO-15	Total/NA
Isopropylbenzene	0 16	J	0 80	0 060	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0 18	J B	0 50	0 13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	2 9		0 80	0 12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0 11	J	0 50	0 090	ppb v/v	1		TO-15	Total/NA
o-Xylene	1 0		0 20	0 061	ppb v/v	1		TO-15	Total/NA
Styrene	0 49		0 20	0 053	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	4 5		0 20	0 040	ppb v/v	1		TO-15	Total/NA
Toluene	12		0 20	0 12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	1 4		0 20	0 024	ppb v/v	1		TO-15	Total/NA
Xylenes, Total	3 9		0 40	0 061	ppb v/v	1		TO-15	Total/NA
Acetone - DL	230		25	7 0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		1 1	0 16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0 59	J	1 5	0 24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	4 7		0 98	0 31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1 7		0 98	0 32	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	3 3		1 2	0 39	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	13		1 2	0 38	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	24		2 9	0 59	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	53	B	2 0	0 18	ug/m3	1		TO-15	Total/NA
Acetone	610	E	12	3 3	ug/m3	1		TO-15	Total/NA
Benzene	17		0 64	0 18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	17		1 6	0 097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0 54	J	1 3	0 24	ug/m3	1		TO-15	Total/NA
Chlorobenzene	0 24	J	0 92	0 23	ug/m3	1		TO-15	Total/NA
Chloroethane	0 24	J	2 1	0 092	ug/m3	1		TO-15	Total/NA
Chloroform	0 30	J	0 98	0 19	ug/m3	1		TO-15	Total/NA
Cyclohexane	19		1 7	0 14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1 9	J	2 5	0 34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	9 8		0 87	0 30	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results

Detection Summary

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-1 (Continued)

Lab Sample ID: 500-99813-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexane	33		2.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	21		12	0.23	ug/m3	1		TO-15	Total/NA
Isopropylbenzene	0.79	J	3.9	0.29	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.64	J B	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	13		3.5	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.56	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	4.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	2.1		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	31		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	45		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	7.7		1.1	0.13	ug/m3	1		TO-15	Total/NA
Xylenes, Total	17		1.7	0.26	ug/m3	1		TO-15	Total/NA
Acetone - DL	550		59	17	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-2

Lab Sample ID: 500-99813-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.80		0.20	0.030	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.078	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.64		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.22		0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.27		0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.6		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	2.9		1.0	0.20	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.84	B	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	140	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.50		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.61		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Chloroform	0.082	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.22	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.81		0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.40	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Hexane	0.57	J	0.80	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.8	J	5.0	0.094	ppb v/v	1		TO-15	Total/NA
Isopropylbenzene	0.061	J	0.80	0.060	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.19	J B	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.80	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.17	J	0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.41		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Styrene	0.33		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.34		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	0.073	J	5.0	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	3.0		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	32		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Xylenes, Total	1.5		0.40	0.061	ppb v/v	1		TO-15	Total/NA
Acetone - DL	120		13	3.5	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.4		1.1	0.16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	J	1.5	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-2 (Continued)

Lab Sample ID: 500-99813-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.2		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.1		0.98	0.32	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.6		1.2	0.39	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	9.4		1.2	0.38	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	8.5		2.9	0.59	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	3.5	B	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	340	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.6		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.9		1.6	0.097	ug/m3	1		TO-15	Total/NA
Chloroform	0.40	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.45	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.8		1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0	J	2.5	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Hexane	2.0	J	2.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	7.0	J	12	0.23	ug/m3	1		TO-15	Total/NA
Isopropylbenzene	0.30	J	3.9	0.29	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.65	J B	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.6		3.5	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.91	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	1.8		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	1.4		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.3		1.4	0.27	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	0.22	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Toluene	11		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	180		1.1	0.13	ug/m3	1		TO-15	Total/NA
Xylenes, Total	5.6		1.7	0.26	ug/m3	1		TO-15	Total/NA
Acetone - DL	290		30	8.3	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-99813-1	VP-1	Air	08/12/15 09:20	08/13/15 10:00
500-99813-2	VP-2	Air	08/12/15 09:45	08/13/15 10:00

Client Sample ID: VP-1
Date Collected: 08/12/15 09:20
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 500-99813-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.3		0.20	0.030	ppb v/v			08/13/15 18:08	1
1,1,2,2-Tetrachloroethane	<0.061		0.20	0.061	ppb v/v			08/13/15 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v			08/13/15 18:08	1
1,1,2-Trichloroethane	<0.054		0.20	0.054	ppb v/v			08/13/15 18:08	1
1,1-Dichloroethane	<0.026		0.20	0.026	ppb v/v			08/13/15 18:08	1
1,1-Dichloroethene	<0.034		0.20	0.034	ppb v/v			08/13/15 18:08	1
1,2,4-Trichlorobenzene	<0.098		2.0	0.098	ppb v/v			08/13/15 18:08	1
1,2,4-Trimethylbenzene	0.95		0.20	0.063	ppb v/v			08/13/15 18:08	1
1,2-Dibromoethane (EDB)	<0.044		0.20	0.044	ppb v/v			08/13/15 18:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.032		0.20	0.032	ppb v/v			08/13/15 18:08	1
1,2-Dichlorobenzene	<0.070		0.20	0.070	ppb v/v			08/13/15 18:08	1
1,2-Dichloroethane	<0.047		0.20	0.047	ppb v/v			08/13/15 18:08	1
1,2-Dichloropropane	<0.052		0.20	0.052	ppb v/v			08/13/15 18:08	1
1,3,5-Trimethylbenzene	0.35		0.20	0.065	ppb v/v			08/13/15 18:08	1
1,3-Dichlorobenzene	0.55		0.20	0.065	ppb v/v			08/13/15 18:08	1
1,4-Dichlorobenzene	2.1		0.20	0.064	ppb v/v			08/13/15 18:08	1
1,4-Dioxane	<0.080		5.0	0.080	ppb v/v			08/13/15 18:08	1
2-Butanone (MEK)	8.0		1.0	0.20	ppb v/v			08/13/15 18:08	1
4-Methyl-2-pentanone (MIBK)	13	B	0.50	0.045	ppb v/v			08/13/15 18:08	1
Acetone	260	E	5.0	1.4	ppb v/v			08/13/15 18:08	1
Benzene	5.3		0.20	0.056	ppb v/v			08/13/15 18:08	1
Benzyl chloride	<0.078		0.80	0.078	ppb v/v			08/13/15 18:08	1
Bromodichloromethane	<0.044		0.20	0.044	ppb v/v			08/13/15 18:08	1
Bromoform	<0.048		0.20	0.048	ppb v/v			08/13/15 18:08	1
Bromomethane	<0.032		0.20	0.032	ppb v/v			08/13/15 18:08	1
Carbon disulfide	5.6		0.50	0.031	ppb v/v			08/13/15 18:08	1
Carbon tetrachloride	0.086	J	0.20	0.038	ppb v/v			08/13/15 18:08	1
Chlorobenzene	0.053	J	0.20	0.049	ppb v/v			08/13/15 18:08	1
Chloroethane	0.089	J	0.80	0.035	ppb v/v			08/13/15 18:08	1
Chloroform	0.061	J	0.20	0.038	ppb v/v			08/13/15 18:08	1
Chloromethane	<0.16		0.50	0.16	ppb v/v			08/13/15 18:08	1
cis-1,2-Dichloroethene	<0.060		0.20	0.060	ppb v/v			08/13/15 18:08	1
cis-1,3-Dichloropropene	<0.074		0.20	0.074	ppb v/v			08/13/15 18:08	1
Cyclohexane	5.4		0.50	0.040	ppb v/v			08/13/15 18:08	1
Dibromochloromethane	<0.042		0.20	0.042	ppb v/v			08/13/15 18:08	1
Dichlorodifluoromethane	0.38	J	0.50	0.068	ppb v/v			08/13/15 18:08	1
Ethylbenzene	2.0		0.20	0.068	ppb v/v			08/13/15 18:08	1
Hexachlorobutadiene	<0.078		0.20	0.078	ppb v/v			08/13/15 18:08	1
Hexane	9.4		0.80	0.032	ppb v/v			08/13/15 18:08	1
Isopropyl alcohol	8.5		5.0	0.094	ppb v/v			08/13/15 18:08	1
Isopropylbenzene	0.16	J	0.80	0.060	ppb v/v			08/13/15 18:08	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			08/13/15 18:08	1
Methylene Chloride	0.18	J B	0.50	0.13	ppb v/v			08/13/15 18:08	1
m-Xylene & p-Xylene	2.9		0.80	0.12	ppb v/v			08/13/15 18:08	1
Naphthalene	0.11	J	0.50	0.090	ppb v/v			08/13/15 18:08	1
o-Xylene	1.0		0.20	0.061	ppb v/v			08/13/15 18:08	1
Styrene	0.49		0.20	0.058	ppb v/v			08/13/15 18:08	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-1
Date Collected: 08/12/15 09:20
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 500-99813-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	4.5		0.20	0.040	ppb v/v			08/13/15 18:08	1
Tetrahydrofuran	<0.063		5.0	0.063	ppb v/v			08/13/15 18:08	1
Toluene	12		0.20	0.12	ppb v/v			08/13/15 18:08	1
trans-1,2-Dichloroethene	<0.050		0.20	0.050	ppb v/v			08/13/15 18:08	1
trans-1,3-Dichloropropene	<0.048		0.20	0.048	ppb v/v			08/13/15 18:08	1
Trichloroethene	<0.036		0.20	0.036	ppb v/v			08/13/15 18:08	1
Trichlorofluoromethane	1.4		0.20	0.024	ppb v/v			08/13/15 18:08	1
Vinyl acetate	<0.14		5.0	0.14	ppb v/v			08/13/15 18:08	1
Vinyl bromide	<0.035		0.20	0.035	ppb v/v			08/13/15 18:08	1
Vinyl chloride	<0.071		0.20	0.071	ppb v/v			08/13/15 18:08	1
Xylenes, Total	3.9		0.40	0.061	ppb v/v			08/13/15 18:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	12		1.1	0.16	ug/m3			08/13/15 18:08	1
1,1,2,2-Tetrachloroethane	<0.42		1.4	0.42	ug/m3			08/13/15 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3			08/13/15 18:08	1
1,1,2-Trichloroethane	<0.29		1.1	0.29	ug/m3			08/13/15 18:08	1
1,1-Dichloroethane	<0.11		0.81	0.11	ug/m3			08/13/15 18:08	1
1,1-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/13/15 18:08	1
1,2,4-Trichlorobenzene	<0.73		15	0.73	ug/m3			08/13/15 18:08	1
1,2,4-Trimethylbenzene	4.7		0.98	0.31	ug/m3			08/13/15 18:08	1
1,2-Dibromoethane (EDB)	<0.34		1.5	0.34	ug/m3			08/13/15 18:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.22		1.4	0.22	ug/m3			08/13/15 18:08	1
1,2-Dichlorobenzene	<0.42		1.2	0.42	ug/m3			08/13/15 18:08	1
1,2-Dichloroethane	<0.19		0.81	0.19	ug/m3			08/13/15 18:08	1
1,2-Dichloropropane	<0.24		0.92	0.24	ug/m3			08/13/15 18:08	1
1,3,5-Trimethylbenzene	1.7		0.98	0.32	ug/m3			08/13/15 18:08	1
1,3-Dichlorobenzene	3.3		1.2	0.39	ug/m3			08/13/15 18:08	1
1,4-Dichlorobenzene	13		1.2	0.38	ug/m3			08/13/15 18:08	1
1,4-Dioxane	<0.29		18	0.29	ug/m3			08/13/15 18:08	1
2-Butanone (MEK)	24		2.9	0.59	ug/m3			08/13/15 18:08	1
4-Methyl-2-pentanone (MIBK)	53	B	2.0	0.18	ug/m3			08/13/15 18:08	1
Acetone	610	E	12	3.3	ug/m3			08/13/15 18:08	1
Benzene	17		0.64	0.18	ug/m3			08/13/15 18:08	1
Benzyl chloride	<0.40		4.1	0.40	ug/m3			08/13/15 18:08	1
Bromodichloromethane	<0.29		1.3	0.29	ug/m3			08/13/15 18:08	1
Bromoform	<0.50		2.1	0.50	ug/m3			08/13/15 18:08	1
Bromomethane	<0.12		0.78	0.12	ug/m3			08/13/15 18:08	1
Carbon disulfide	17		1.6	0.097	ug/m3			08/13/15 18:08	1
Carbon tetrachloride	0.54	J	1.3	0.24	ug/m3			08/13/15 18:08	1
Chlorobenzene	0.24	J	0.92	0.23	ug/m3			08/13/15 18:08	1
Chloroethane	0.24	J	2.1	0.092	ug/m3			08/13/15 18:08	1
Chloroform	0.30	J	0.98	0.19	ug/m3			08/13/15 18:08	1
Chloromethane	<0.33		1.0	0.33	ug/m3			08/13/15 18:08	1
cis-1,2-Dichloroethene	<0.24		0.79	0.24	ug/m3			08/13/15 18:08	1
cis-1,3-Dichloropropene	<0.34		0.91	0.34	ug/m3			08/13/15 18:08	1
Cyclohexane	19		1.7	0.14	ug/m3			08/13/15 18:08	1
Dibromochloromethane	<0.36		1.7	0.36	ug/m3			08/13/15 18:08	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-1

Lab Sample ID: 500-99813-1
Matrix: Air

Date Collected: 08/12/15 09:20
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.9	J	2.5	0.34	ug/m3			08/13/15 18:08	1
Ethylbenzene	8.8		0.87	0.30	ug/m3			08/13/15 18:08	1
Hexachlorobutadiene	<0.63		2.1	0.83	ug/m3			08/13/15 18:08	1
Hexane	33		2.5	0.11	ug/m3			08/13/15 18:08	1
Isopropyl alcohol	21		12	0.23	ug/m3			08/13/15 18:08	1
Isopropylbenzene	0.79	J	3.9	0.29	ug/m3			08/13/15 18:08	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			08/13/15 18:08	1
Methylene Chloride	0.64	J B	1.7	0.45	ug/m3			08/13/15 18:08	1
m-Xylene & p-Xylene	13		3.5	0.52	ug/m3			08/13/15 18:08	1
Naphthalene	0.56	J	2.6	0.47	ug/m3			08/13/15 18:08	1
o-Xylene	4.4		0.87	0.26	ug/m3			08/13/15 18:08	1
Styrene	2.1		0.85	0.25	ug/m3			08/13/15 18:08	1
Tetrachloroethene	31		1.4	0.27	ug/m3			08/13/15 18:08	1
Tetrahydrofuran	<0.19		15	0.19	ug/m3			08/13/15 18:08	1
Toluene	45		0.75	0.45	ug/m3			08/13/15 18:08	1
trans-1,2-Dichloroethene	<0.20		0.79	0.20	ug/m3			08/13/15 18:08	1
trans-1,3-Dichloropropene	<0.22		0.91	0.22	ug/m3			08/13/15 18:08	1
Trichloroethene	<0.19		1.1	0.19	ug/m3			08/13/15 18:08	1
Trichlorofluoromethane	7.7		1.1	0.13	ug/m3			08/13/15 18:08	1
Vinyl acetate	<0.49		18	0.49	ug/m3			08/13/15 18:08	1
Vinyl bromide	<0.16		0.87	0.16	ug/m3			08/13/15 18:08	1
Vinyl chloride	<0.15		0.51	0.15	ug/m3			08/13/15 18:08	1
Xylenes, Total	17		1.7	0.26	ug/m3			08/13/15 18:08	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	230		25	7.0	ppb v/v			08/14/15 12:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	550		59	17	ug/m3			08/14/15 12:10	1

Client Sample ID: VP-2

Lab Sample ID: 500-99813-2
Matrix: Air

Date Collected: 08/12/15 09:45
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.80		0.20	0.049	ppb v/v			08/13/15 19:32	1
1,1,2,2-Tetrachloroethane	<0.061		0.20	0.061	ppb v/v			08/13/15 19:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.078	J	0.20	0.031	ppb v/v			08/13/15 19:32	1
1,1,2-Trichloroethane	<0.054		0.20	0.054	ppb v/v			08/13/15 19:32	1
1,1-Dichloroethane	<0.026		0.20	0.026	ppb v/v			08/13/15 19:32	1
1,1-Dichloroethene	<0.034		0.20	0.034	ppb v/v			08/13/15 19:32	1
1,2,4-Trichlorobenzene	<0.046		2.0	0.046	ppb v/v			08/13/15 19:32	1
1,2,4-Trimethylbenzene	0.64		0.20	0.060	ppb v/v			08/13/15 19:32	1
1,2-Dibromoethane (EDB)	<0.044		0.20	0.044	ppb v/v			08/13/15 19:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.032		0.20	0.032	ppb v/v			08/13/15 19:32	1
1,2-Dichlorobenzene	<0.070		0.20	0.070	ppb v/v			08/13/15 19:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-2

Lab Sample ID: 500-99813-2
Matrix: Air

Date Collected: 08/12/15 09:45
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.047		0.20	0.047	ppb v/v			08/13/15 19:32	1
1,2-Dichloropropane	<0.052		0.20	0.052	ppb v/v			08/13/15 19:32	1
1,3,5-Trimethylbenzene	0.22		0.20	0.065	ppb v/v			08/13/15 19:32	1
1,3-Dichlorobenzene	0.27		0.20	0.065	ppb v/v			08/13/15 19:32	1
1,4-Dichlorobenzene	1.6		0.20	0.064	ppb v/v			08/13/15 19:32	1
1,4-Dioxane	<0.080		5.0	0.080	ppb v/v			08/13/15 19:32	1
2-Butanone (MEK)	2.9		1.0	0.20	ppb v/v			08/13/15 19:32	1
4-Methyl-2-pentanone (MIBK)	0.84	B	0.50	0.045	ppb v/v			08/13/15 19:32	1
Acetone	140	E	5.0	1.4	ppb v/v			08/13/15 19:32	1
Benzene	0.50		0.20	0.056	ppb v/v			08/13/15 19:32	1
Benzyl chloride	<0.078		0.80	0.078	ppb v/v			08/13/15 19:32	1
Bromodichloromethane	<0.044		0.20	0.044	ppb v/v			08/13/15 19:32	1
Bromoform	<0.043		0.20	0.043	ppb v/v			08/13/15 19:32	1
Bromomethane	<0.032		0.20	0.032	ppb v/v			08/13/15 19:32	1
Carbon disulfide	0.61		0.50	0.031	ppb v/v			08/13/15 19:32	1
Carbon tetrachloride	<0.036		0.20	0.036	ppb v/v			08/13/15 19:32	1
Chlorobenzene	<0.043		0.20	0.043	ppb v/v			08/13/15 19:32	1
Chloroethane	<0.25		0.80	0.25	ppb v/v			08/13/15 19:32	1
Chloroform	0.082	J	0.20	0.039	ppb v/v			08/13/15 19:32	1
Chloromethane	0.22	J	0.50	0.16	ppb v/v			08/13/15 19:32	1
cis-1,2-Dichloroethene	<0.060		0.20	0.060	ppb v/v			08/13/15 19:32	1
cis-1,3-Dichloropropene	<0.074		0.20	0.074	ppb v/v			08/13/15 19:32	1
Cyclohexane	0.81		0.50	0.040	ppb v/v			08/13/15 19:32	1
Dichlorobromomethane	<0.042		0.20	0.042	ppb v/v			08/13/15 19:32	1
Dichlorodifluoromethane	0.40	J	0.50	0.069	ppb v/v			08/13/15 19:32	1
Ethylbenzene	0.46		0.20	0.068	ppb v/v			08/13/15 19:32	1
Hexachlorobutadiene	<0.078		0.20	0.078	ppb v/v			08/13/15 19:32	1
Hexane	0.57	J	0.50	0.022	ppb v/v			08/13/15 19:32	1
Isopropyl alcohol	2.8	J	5.0	0.094	ppb v/v			08/13/15 19:32	1
Isopropylbenzene	0.061	J	0.80	0.060	ppb v/v			08/13/15 19:32	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			08/13/15 19:32	1
Methylene Chloride	0.19	J B	0.50	0.13	ppb v/v			08/13/15 19:32	1
m-Xylene & p-Xylene	1.1		0.80	0.12	ppb v/v			08/13/15 19:32	1
Naphthalene	0.17	J	0.50	0.090	ppb v/v			08/13/15 19:32	1
o-Xylene	0.41		0.20	0.060	ppb v/v			08/13/15 19:32	1
Styrene	0.33		0.20	0.058	ppb v/v			08/13/15 19:32	1
Tetrachloroethene	0.34		0.20	0.040	ppb v/v			08/13/15 19:32	1
Tetrahydrofuran	0.673	J	5.0	0.093	ppb v/v			08/13/15 19:32	1
Toluene	3.0		0.20	0.12	ppb v/v			08/13/15 19:32	1
trans-1,2-Dichloroethene	<0.059		0.20	0.059	ppb v/v			08/13/15 19:32	1
trans-1,3-Dichloropropene	<0.048		0.20	0.048	ppb v/v			08/13/15 19:32	1
Trichloroethene	<0.035		0.20	0.035	ppb v/v			08/13/15 19:32	1
Trichlorofluoromethane	32		0.20	0.064	ppb v/v			08/13/15 19:32	1
Vinyl acetate	<0.14		5.0	0.14	ppb v/v			08/13/15 19:32	1
Vinyl bromide	<0.035		0.20	0.035	ppb v/v			08/13/15 19:32	1
Vinyl chloride	<0.071		0.20	0.071	ppb v/v			08/13/15 19:32	1
Xylenes, Total	1.5		0.40	0.061	ppb v/v			08/13/15 19:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-2
Date Collected: 08/12/15 09:45
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 500-99813-2
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.4**		1.1	0.16	ug/m3			08/13/15 19:32	1
1,1,2,2-Tetrachloroethane	<0.42		1.4	0.42	ug/m3			08/13/15 19:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.60**	**J**	1.5	0.24	ug/m3			08/13/15 19:32	1
1,1,2-Trichloroethane	<0.29		1.1	0.29	ug/m3			08/13/15 19:32	1
1,1-Dichloroethane	<0.11		0.81	0.11	ug/m3			08/13/15 19:32	1
1,1-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/13/15 19:32	1
1,2,4-Trichlorobenzene	<0.73		15	0.73	ug/m3			08/13/15 19:32	1
1,2,4-Trimethylbenzene	**3.2**		0.98	0.31	ug/m3			08/13/15 19:32	1
1,2-Dibromoethane (EDB)	<0.34		1.5	0.34	ug/m3			08/13/15 19:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.22		1.4	0.22	ug/m3			08/13/15 19:32	1
1,2-Dichlorobenzene	<0.42		1.2	0.42	ug/m3			08/13/15 19:32	1
1,2-Dichloroethane	<0.19		0.81	0.19	ug/m3			08/13/15 19:32	1
1,2-Dichloropropane	<0.24		0.92	0.24	ug/m3			08/13/15 19:32	1
1,3,5-Trimethylbenzene	**1.1**		0.98	0.32	ug/m3			08/13/15 19:32	1
1,3-Dichlorobenzene	**1.6**		1.2	0.39	ug/m3			08/13/15 19:32	1
1,4-Dichlorobenzene	**9.4**		1.2	0.36	ug/m3			08/13/15 19:32	1
1,4-Dioxane	<0.29		1.8	0.29	ug/m3			08/13/15 19:32	1
2-Butanone (MEK)	**8.5**		2.9	0.59	ug/m3			08/13/15 19:32	1
4-Methyl-2-pentanone (MIBK)	**3.5**	**B**	2.0	0.18	ug/m3			08/13/15 19:32	1
Acetone	**340**	**E**	12	3.3	ug/m3			08/13/15 19:32	1
Benzene	**1.6**		0.64	0.18	ug/m3			08/13/15 19:32	1
Benzyl chloride	<0.40		4.1	0.40	ug/m3			08/13/15 19:32	1
Bromodichloromethane	<0.29		1.3	0.29	ug/m3			08/13/15 19:32	1
Bromoform	<0.50		2.1	0.50	ug/m3			08/13/15 19:32	1
Bromomethane	<0.12		0.78	0.12	ug/m3			08/13/15 19:32	1
Carbon disulfide	**1.9**		1.6	0.097	ug/m3			08/13/15 19:32	1
Carbon tetrachloride	<0.24		1.3	0.24	ug/m3			08/13/15 19:32	1
Chlorobenzene	<0.23		0.92	0.23	ug/m3			08/13/15 19:32	1
Chloroethane	<0.092		2.1	0.092	ug/m3			08/13/15 19:32	1
Chloroform	**0.40**	**J**	0.98	0.19	ug/m3			08/13/15 19:32	1
Chloromethane	**0.45**	**J**	1.0	0.33	ug/m3			08/13/15 19:32	1
cis-1,2-Dichloroethene	<0.24		0.79	0.24	ug/m3			08/13/15 19:32	1
cis-1,3-Dichloropropene	<0.34		0.91	0.34	ug/m3			08/13/15 19:32	1
Cyclohexane	**2.8**		1.7	0.14	ug/m3			08/13/15 19:32	1
Dibromochloromethane	<0.36		1.7	0.36	ug/m3			08/13/15 19:32	1
Dichlorodifluoromethane	**2.0**	**J**	2.5	0.34	ug/m3			08/13/15 19:32	1
Ethylbenzene	**2.0**		0.87	0.30	ug/m3			08/13/15 19:32	1
Hexachlorobutadiene	<0.83		2.1	0.83	ug/m3			08/13/15 19:32	1
Hexane	**2.0**	**J**	2.8	0.11	ug/m3			08/13/15 19:32	1
Isopropyl alcohol	**7.0**	**J**	12	0.23	ug/m3			08/13/15 19:32	1
Isopropylbenzene	**0.30**	**J**	3.9	0.29	ug/m3			08/13/15 19:32	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			08/13/15 19:32	1
Methylene Chloride	**0.65**	**J B**	1.7	0.45	ug/m3			08/13/15 19:32	1
m-Xylene & p-Xylene	**4.6**		3.5	0.52	ug/m3			08/13/15 19:32	1
Naphthalene	**0.91**	**J**	2.6	0.47	ug/m3			08/13/15 19:32	1
o-Xylene	**1.8**		0.87	0.26	ug/m3			08/13/15 19:32	1
Styrene	**1.4**		0.85	0.25	ug/m3			08/13/15 19:32	1
Tetrachloroethene	**2.3**		1.4	0.27	ug/m3			08/13/15 19:32	1
Tetrahydrofuran	**0.22**	**J**	1.5	0.19	ug/m3			08/13/15 19:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-2
Date Collected: 08/12/15 09:45
Date Received: 08/13/15 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 500-99813-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**11**		0.75	0.45	ug/m3			08/13/15 19:32	1
trans-1,2-Dichloroethene	<0.20		0.79	0.20	ug/m3			08/13/15 19:32	1
trans-1,3-Dichloropropene	<0.22		0.91	0.22	ug/m3			08/13/15 19:32	1
Trichloroethene	<0.19		1.1	0.19	ug/m3			08/13/15 19:32	1
Trichlorofluoromethane	**180**		1.1	0.13	ug/m3			08/13/15 19:32	1
Vinyl acetate	<0.49		1.8	0.49	ug/m3			08/13/15 19:32	1
Vinyl bromide	<0.15		0.87	0.15	ug/m3			08/13/15 19:32	1
Vinyl chloride	<0.18		0.51	0.18	ug/m3			08/13/15 19:32	1
Xylenes, Total	**6.6**		1.7	0.26	ug/m3			08/13/15 19:32	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120		13	3.5	ppb v/v			08/14/15 12:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	290		30	8.3	ug/m3			08/14/15 12:54	1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B	Compound was found in the blank and sample.
E	Result exceeded calibration range

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Air - GC/MS VOA

Analysis Batch: 3211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99813-1	VP-1	Total/NA	Air	TO-15	
500-99813-2	VP-2	Total/NA	Air	TO-15	
LCS 140-3211/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-3211/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 3212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-99813-1 - DL	VP-1	Total/NA	Air	TO-15	
500-99813-2 - DL	VP-2	Total/NA	Air	TO-15	
LCS 140-3212/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-3212/4	Method Blank	Total/NA	Air	TO-15	

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-3211/5
Matrix: Air
Analysis Batch: 3211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.030		0.20	0.030	ppb v/v			08/13/15 12:18	1
1,1,2,2-Tetrachloroethane	<0.061		0.20	0.061	ppb v/v			08/13/15 12:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.031		0.20	0.031	ppb v/v			08/13/15 12:18	1
1,1,2-Trichloroethane	<0.054		0.20	0.054	ppb v/v			08/13/15 12:18	1
1,1-Dichloroethane	<0.025		0.20	0.026	ppb v/v			08/13/15 12:18	1
1,1-Dichloroethene	<0.034		0.20	0.034	ppb v/v			08/13/15 12:18	1
1,2,4-Trichlorobenzene	<0.058		2.0	0.058	ppb v/v			08/13/15 12:18	1
1,2,4-Trimethylbenzene	<0.063		0.20	0.063	ppb v/v			08/13/15 12:18	1
1,2-Dibromoethane (EDB)	<0.044		0.20	0.044	ppb v/v			08/13/15 12:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.032		0.20	0.032	ppb v/v			08/13/15 12:18	1
1,2-Dichlorobenzene	<0.070		0.20	0.070	ppb v/v			08/13/15 12:18	1
1,2-Dichloroethane	<0.047		0.20	0.047	ppb v/v			08/13/15 12:18	1
1,2-Dichloropropane	<0.052		0.20	0.052	ppb v/v			08/13/15 12:18	1
1,3,5-Trimethylbenzene	<0.065		0.20	0.065	ppb v/v			08/13/15 12:18	1
1,3-Dichlorobenzene	<0.065		0.20	0.065	ppb v/v			08/13/15 12:18	1
1,4-Dichlorobenzene	<0.064		0.20	0.064	ppb v/v			08/13/15 12:18	1
1,4-Dioxane	<0.080		5.0	0.080	ppb v/v			08/13/15 12:18	1
2-Butanone (MEK)	<0.20		1.0	0.20	ppb v/v			08/13/15 12:18	1
4-Methyl-2-pentanone (MIBK)	0.0451	J	0.50	0.045	ppb v/v			08/13/15 12:18	1
Acetone	<1.4		5.0	1.4	ppb v/v			08/13/15 12:18	1
Benzene	<0.056		0.20	0.056	ppb v/v			08/13/15 12:18	1
Benzyl chloride	<0.078		0.80	0.078	ppb v/v			08/13/15 12:18	1
Bromodichloromethane	<0.044		0.20	0.044	ppb v/v			08/13/15 12:18	1
Bromoform	<0.048		0.20	0.048	ppb v/v			08/13/15 12:18	1
Bromomethane	<0.032		0.20	0.032	ppb v/v			08/13/15 12:18	1
Carbon disulfide	<0.031		0.50	0.031	ppb v/v			08/13/15 12:18	1
Carbon tetrachloride	<0.038		0.20	0.038	ppb v/v			08/13/15 12:18	1
Chlorobenzene	<0.049		0.20	0.049	ppb v/v			08/13/15 12:18	1
Chloroethane	<0.035		0.80	0.035	ppb v/v			08/13/15 12:18	1
Chloroform	<0.038		0.20	0.038	ppb v/v			08/13/15 12:18	1
Chloromethane	<0.16		0.50	0.16	ppb v/v			08/13/15 12:18	1
cis-1,2-Dichloroethene	<0.060		0.20	0.060	ppb v/v			08/13/15 12:18	1
cis-1,3-Dichloropropene	<0.074		0.20	0.074	ppb v/v			08/13/15 12:18	1
Cyclohexane	<0.040		0.50	0.040	ppb v/v			08/13/15 12:18	1
Dibromochloromethane	<0.042		0.20	0.042	ppb v/v			08/13/15 12:18	1
Dichlorodifluoromethane	<0.068		0.50	0.068	ppb v/v			08/13/15 12:18	1
Ethylbenzene	<0.068		0.20	0.068	ppb v/v			08/13/15 12:18	1
Hexachlorobutadiene	<0.078		0.20	0.078	ppb v/v			08/13/15 12:18	1
Hexane	<0.032		0.80	0.032	ppb v/v			08/13/15 12:18	1
Isopropyl alcohol	<0.094		5.0	0.094	ppb v/v			08/13/15 12:18	1
Isopropylbenzene	<0.060		0.80	0.060	ppb v/v			08/13/15 12:18	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			08/13/15 12:18	1
Methylene Chloride	0.168	J	0.50	0.13	ppb v/v			08/13/15 12:18	1
m-Xylene & p-Xylene	<0.12		0.80	0.12	ppb v/v			08/13/15 12:18	1
Naphthalene	<0.090		0.50	0.090	ppb v/v			08/13/15 12:18	1
o-Xylene	<0.061		0.20	0.061	ppb v/v			08/13/15 12:18	1
Styrene	<0.058		0.20	0.058	ppb v/v			08/13/15 12:18	1
Tetrachloroethene	<0.040		0.20	0.040	ppb v/v			08/13/15 12:18	1

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-3211/5
Matrix: Air
Analysis Batch: 3211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<0.063		5.0	0.063	ppb v/v			08/13/15 12:18	1
Toluene	<0.12		0.20	0.12	ppb v/v			08/13/15 12:18	1
trans-1,2-Dichloroethene	<0.050		0.20	0.050	ppb v/v			08/13/15 12:18	1
trans-1,3-Dichloropropene	<0.048		0.20	0.048	ppb v/v			08/13/15 12:18	1
Trichloroethene	<0.036		0.20	0.036	ppb v/v			08/13/15 12:18	1
Trichlorofluoromethane	<0.024		0.20	0.024	ppb v/v			08/13/15 12:18	1
Vinyl acetate	<0.14		5.0	0.14	ppb v/v			08/13/15 12:18	1
Vinyl bromide	<0.035		0.20	0.035	ppb v/v			08/13/15 12:18	1
Vinyl chloride	<0.071		0.20	0.071	ppb v/v			08/13/15 12:18	1
Xylenes, Total	<0.061		0.40	0.061	ppb v/v			08/13/15 12:18	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.16		1.1	0.16	ug/m3			08/13/15 12:18	1
1,1,2,2-Tetrachloroethane	<0.42		1.4	0.42	ug/m3			08/13/15 12:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.24		1.5	0.24	ug/m3			08/13/15 12:18	1
1,1,2-Trichloroethane	<0.29		1.1	0.29	ug/m3			08/13/15 12:18	1
1,1-Dichloroethane	<0.11		0.81	0.11	ug/m3			08/13/15 12:18	1
1,1-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/13/15 12:18	1
1,2,4-Trichlorobenzene	<0.73		15	0.73	ug/m3			08/13/15 12:18	1
1,2,4-Trimethylbenzene	<0.31		0.98	0.31	ug/m3			08/13/15 12:18	1
1,2-Dibromoethane (EDB)	<0.34		1.5	0.34	ug/m3			08/13/15 12:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.22		1.4	0.22	ug/m3			08/13/15 12:18	1
1,2-Dichlorobenzene	<0.42		1.2	0.42	ug/m3			08/13/15 12:18	1
1,2-Dichloroethane	<0.19		0.81	0.19	ug/m3			08/13/15 12:18	1
1,2-Dichloropropane	<0.24		0.92	0.24	ug/m3			08/13/15 12:18	1
1,3,5-Trimethylbenzene	<0.32		0.98	0.32	ug/m3			08/13/15 12:18	1
1,3-Dichlorobenzene	<0.39		1.2	0.39	ug/m3			08/13/15 12:18	1
1,4-Dichlorobenzene	<0.38		1.2	0.38	ug/m3			08/13/15 12:18	1
1,4-Dioxane	<0.29		18	0.29	ug/m3			08/13/15 12:18	1
2-Butanone (MEK)	<0.59		2.9	0.59	ug/m3			08/13/15 12:18	1
4-Methyl-2-pentanone (MIBK)	0.185	J	2.0	0.18	ug/m3			08/13/15 12:18	1
Acetone	<3.3		12	3.3	ug/m3			08/13/15 12:18	1
Benzene	<0.18		0.64	0.18	ug/m3			08/13/15 12:18	1
Benzyl chloride	<0.40		4.1	0.40	ug/m3			08/13/15 12:18	1
Bromodichloromethane	<0.29		1.3	0.29	ug/m3			08/13/15 12:18	1
Bromoform	<0.50		2.1	0.50	ug/m3			08/13/15 12:18	1
Bromomethane	<0.12		0.78	0.12	ug/m3			08/13/15 12:18	1
Carbon disulfide	<0.097		1.6	0.097	ug/m3			08/13/15 12:18	1
Carbon tetrachloride	<0.24		1.3	0.24	ug/m3			08/13/15 12:18	1
Chlorobenzene	<0.23		0.92	0.23	ug/m3			08/13/15 12:18	1
Chloroethane	<0.092		2.1	0.092	ug/m3			08/13/15 12:18	1
Chloroform	<0.19		0.98	0.19	ug/m3			08/13/15 12:18	1
Chloromethane	<0.33		1.0	0.33	ug/m3			08/13/15 12:18	1
cis-1,2-Dichloroethene	<0.24		0.79	0.24	ug/m3			08/13/15 12:18	1
cis-1,3-Dichloropropene	<0.34		0.91	0.34	ug/m3			08/13/15 12:18	1
Cyclohexane	<0.14		1.7	0.14	ug/m3			08/13/15 12:18	1
Dibromochloromethane	<0.36		1.7	0.36	ug/m3			08/13/15 12:18	1
Dichlorodifluoromethane	<0.34		2.5	0.34	ug/m3			08/13/15 12:18	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-3211/5
Matrix: Air
Analysis Batch: 3211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.30		0.87	0.30	ug/m3			08/13/15 12:18	1
Hexachlorobutadiene	<0.83		2.1	0.83	ug/m3			08/13/15 12:18	1
Hexane	<0.11		2.8	0.11	ug/m3			08/13/15 12:18	1
Isopropyl alcohol	<0.23		12	0.23	ug/m3			08/13/15 12:18	1
Isopropylbenzene	<0.29		3.9	0.29	ug/m3			08/13/15 12:18	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			08/13/15 12:18	1
Methylene Chloride	0.584	J	1.7	0.45	ug/m3			08/13/15 12:18	1
m-Xylene & p-Xylene	<0.52		3.5	0.52	ug/m3			08/13/15 12:18	1
Naphthalene	<0.47		2.6	0.47	ug/m3			08/13/15 12:18	1
o-Xylene	<0.26		0.87	0.26	ug/m3			08/13/15 12:18	1
Styrene	<0.25		0.85	0.25	ug/m3			08/13/15 12:18	1
Tetrachloroethene	<0.27		1.4	0.27	ug/m3			08/13/15 12:18	1
Tetrahydrofuran	<0.19		15	0.19	ug/m3			08/13/15 12:18	1
Toluene	<0.45		0.75	0.45	ug/m3			08/13/15 12:18	1
trans-1,2-Dichloroethene	<0.20		0.79	0.20	ug/m3			08/13/15 12:18	1
trans-1,3-Dichloropropene	<0.22		0.91	0.22	ug/m3			08/13/15 12:18	1
Trichloroethene	<0.19		1.1	0.19	ug/m3			08/13/15 12:18	1
Trichlorofluoromethane	<0.13		1.1	0.13	ug/m3			08/13/15 12:18	1
Vinyl acetate	<0.49		18	0.49	ug/m3			08/13/15 12:18	1
Vinyl bromide	<0.15		0.87	0.15	ug/m3			08/13/15 12:18	1
Vinyl chloride	<0.18		0.51	0.18	ug/m3			08/13/15 12:18	1
Xylenes, Total	<0.26		1.7	0.26	ug/m3			08/13/15 12:18	1

Lab Sample ID: LCS 140-3211/1002
Matrix: Air
Analysis Batch: 3211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.72		ppb v/v		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.15		ppb v/v		107	70 - 130
1,1,2-Trichloroethane	2.00	1.76		ppb v/v		88	70 - 130
1,1-Dichloroethane	2.00	1.91		ppb v/v		95	70 - 130
1,1-Dichloroethene	2.00	2.14		ppb v/v		107	70 - 130
1,2,4-Trichlorobenzene	2.00	1.55		ppb v/v		78	60 - 140
1,2,4-Trimethylbenzene	2.00	1.71		ppb v/v		85	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.71		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.40		ppb v/v		120	60 - 140
1,2-Dichlorobenzene	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,2-Dichloropropane	2.00	1.75		ppb v/v		87	70 - 130
1,3,5-Trimethylbenzene	2.00	1.71		ppb v/v		85	70 - 130
1,3-Dichlorobenzene	2.00	1.68		ppb v/v		84	70 - 130
1,4-Dichlorobenzene	2.00	1.68		ppb v/v		84	70 - 130
1,4-Dioxane	2.00	1.78	J	ppb v/v		89	60 - 140
2-Butanone (MEK)	2.00	1.60		ppb v/v		80	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.49		ppb v/v		75	60 - 140

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-3211/1002
Matrix: Air
Analysis Batch: 3211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	6.00	5.21		ppb v/v		87	60 - 140
Benzene	2.00	1.84		ppb v/v		92	70 - 130
Benzyl chloride	2.00	1.72		ppb v/v		86	70 - 130
Bromodichloromethane	2.00	1.97		ppb v/v		99	70 - 130
Bromoform	2.00	2.11		ppb v/v		105	60 - 140
Bromomethane	2.00	2.30		ppb v/v		115	70 - 130
Carbon disulfide	2.00	2.13		ppb v/v		107	70 - 130
Carbon tetrachloride	2.00	2.14		ppb v/v		107	70 - 130
Chlorobenzene	2.00	1.70		ppb v/v		85	70 - 130
Chloroethane	2.00	2.18		ppb v/v		108	70 - 130
Chloroform	2.00	1.93		ppb v/v		97	70 - 130
Chloromethane	2.00	2.13		ppb v/v		106	60 - 140
cis-1,2-Dichloroethene	2.00	1.97		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	1.75		ppb v/v		88	70 - 130
Cyclohexane	2.00	1.96		ppb v/v		98	70 - 130
Dibromochloromethane	2.00	1.99		ppb v/v		99	70 - 130
Dichlorodifluoromethane	2.00	2.33		ppb v/v		117	60 - 140
Ethylbenzene	2.00	1.68		ppb v/v		84	70 - 130
Hexachlorobutadiene	2.00	1.69		ppb v/v		84	60 - 140
Hexane	2.00	1.88		ppb v/v		94	70 - 130
Isopropyl alcohol	6.00	5.65		ppb v/v		94	60 - 140
Isopropylbenzene	2.00	1.73		ppb v/v		86	70 - 130
Methyl tert-butyl ether	2.00	1.73		ppb v/v		87	60 - 140
Methylene Chloride	2.00	1.99		ppb v/v		100	70 - 130
m-Xylene & p-Xylene	4.00	3.41		ppb v/v		85	70 - 130
Naphthalene	2.00	1.57		ppb v/v		78	60 - 140
o-Xylene	2.00	1.72		ppb v/v		86	70 - 130
Styrene	2.00	1.74		ppb v/v		87	70 - 130
Tetrachloroethene	2.00	1.85		ppb v/v		92	70 - 130
Tetrahydrofuran	2.00	1.58	J	ppb v/v		79	60 - 140
Toluene	2.00	1.72		ppb v/v		86	70 - 130
trans-1,2-Dichloroethene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,3-Dichloropropene	2.00	1.67		ppb v/v		84	70 - 130
Trichloroethene	2.00	2.02		ppb v/v		101	70 - 130
Trichlorofluoromethane	2.00	2.43		ppb v/v		121	60 - 140
Vinyl acetate	2.00	1.52	J	ppb v/v		76	60 - 140
Vinyl bromide	2.00	2.32		ppb v/v		116	60 - 140
Vinyl chloride	2.00	2.16		ppb v/v		108	70 - 130
Xylenes, Total	6.00	5.13		ppb v/v		85	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.1		ug/m3		102	70 - 130
1,1,2,2-Tetrachloroethane	14	11.8		ug/m3		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	16.5		ug/m3		107	70 - 130
1,1,2-Trichloroethane	11	9.62		ug/m3		88	70 - 130
1,1-Dichloroethane	8.1	7.72		ug/m3		95	70 - 130
1,1-Dichloroethene	7.9	8.47		ug/m3		107	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-3211/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 3211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	15	11.5		ug/m3		78	60 - 140
1,2,4-Trimethylbenzene	9.8	8.39		ug/m3		85	70 - 130
1,2-Dibromoethane (EDB)	15	13.1		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	16.8		ug/m3		120	60 - 140
1,2-Dichlorobenzene	12	10.2		ug/m3		85	70 - 130
1,2-Dichloroethane	8.1	7.36		ug/m3		91	70 - 130
1,2-Dichloropropane	9.2	8.08		ug/m3		87	70 - 130
1,3,5-Trimethylbenzene	9.8	8.38		ug/m3		85	70 - 130
1,3-Dichlorobenzene	12	10.1		ug/m3		84	70 - 130
1,4-Dichlorobenzene	12	10.1		ug/m3		84	70 - 130
1,4-Dioxane	7.2	6.42	J	ug/m3		89	60 - 140
2-Butanone (MEK)	5.9	4.72		ug/m3		80	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	6.12		ug/m3		75	60 - 140
Acetone	14	12.4		ug/m3		87	60 - 140
Benzene	6.4	5.89		ug/m3		92	70 - 130
Benzyl chloride	10	8.92		ug/m3		86	70 - 130
Bromodichloromethane	13	13.2		ug/m3		99	70 - 130
Bromoform	21	21.8		ug/m3		105	60 - 140
Bromomethane	7.8	8.92		ug/m3		115	70 - 130
Carbon disulfide	6.2	6.64		ug/m3		107	70 - 130
Carbon tetrachloride	13	13.5		ug/m3		107	70 - 130
Chlorobenzene	9.2	7.84		ug/m3		85	70 - 130
Chloroethane	5.3	5.70		ug/m3		108	70 - 130
Chloroform	9.8	9.44		ug/m3		97	70 - 130
Chloromethane	4.1	4.39		ug/m3		106	60 - 140
cis-1,2-Dichloroethene	7.9	7.82		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	7.96		ug/m3		88	70 - 130
Cyclohexane	6.9	6.75		ug/m3		98	70 - 130
Dibromochloromethane	17	16.9		ug/m3		99	70 - 130
Dichlorodifluoromethane	9.9	11.5		ug/m3		117	60 - 140
Ethylbenzene	8.7	7.30		ug/m3		84	70 - 130
Hexachlorobutadiene	21	18.0		ug/m3		84	60 - 140
Hexane	7.1	6.63		ug/m3		94	70 - 130
Isopropyl alcohol	15	13.9		ug/m3		94	60 - 140
Isopropylbenzene	9.8	8.51		ug/m3		86	70 - 130
Methyl tert-butyl ether	7.2	6.25		ug/m3		87	60 - 140
Methylene Chloride	7.0	6.93		ug/m3		100	70 - 130
m-Xylene & p-Xylene	17	14.8		ug/m3		85	70 - 130
Naphthalene	10	8.20		ug/m3		78	60 - 140
o-Xylene	8.7	7.47		ug/m3		86	70 - 130
Styrene	8.5	7.41		ug/m3		87	70 - 130
Tetrachloroethene	14	12.5		ug/m3		92	70 - 130
Tetrahydrofuran	5.9	4.65	J	ug/m3		79	60 - 140
Toluene	7.5	6.49		ug/m3		86	70 - 130
trans-1,2-Dichloroethene	7.9	8.41		ug/m3		106	70 - 130
trans-1,3-Dichloropropene	9.1	7.59		ug/m3		84	70 - 130
Trichloroethene	11	10.9		ug/m3		101	70 - 130

QC Sample Results

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-3211/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 3211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	11	13.6		ug/m3		121	60 - 140
Vinyl acetate	7.0	5.36	J	ug/m3		75	60 - 140
Vinyl bromide	8.8	10.2		ug/m3		116	60 - 140
Vinyl chloride	5.1	5.51		ug/m3		108	70 - 130
Xylenes, Total	26	22.3		ug/m3		85	70 - 130

Lab Sample ID: MB 140-3212/4 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 3212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.030		0.20	0.030	ppb v/v			08/14/15 11:33	1
1,1,2,2-Tetrachloroethane	<0.061		0.20	0.061	ppb v/v			08/14/15 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.031		0.20	0.031	ppb v/v			08/14/15 11:33	1
1,1,2-Trichloroethane	<0.054		0.20	0.054	ppb v/v			08/14/15 11:33	1
1,1-Dichloroethane	<0.026		0.20	0.026	ppb v/v			08/14/15 11:33	1
1,1-Dichloroethene	<0.034		0.20	0.034	ppb v/v			08/14/15 11:33	1
1,2,4-Trichlorobenzene	<0.098		2.0	0.098	ppb v/v			08/14/15 11:33	1
1,2,4-Trimethylbenzene	<0.063		0.20	0.063	ppb v/v			08/14/15 11:33	1
1,2-Dibromoethane (EDB)	<0.044		0.20	0.044	ppb v/v			08/14/15 11:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.032		0.20	0.032	ppb v/v			08/14/15 11:33	1
1,2-Dichlorobenzene	<0.070		0.20	0.070	ppb v/v			08/14/15 11:33	1
1,2-Dichloroethane	<0.047		0.20	0.047	ppb v/v			08/14/15 11:33	1
1,2-Dichloropropane	<0.052		0.20	0.052	ppb v/v			08/14/15 11:33	1
1,3,5-Trimethylbenzene	<0.065		0.20	0.065	ppb v/v			08/14/15 11:33	1
1,3-Dichlorobenzene	<0.065		0.20	0.065	ppb v/v			08/14/15 11:33	1
1,4-Dichlorobenzene	<0.064		0.20	0.064	ppb v/v			08/14/15 11:33	1
1,4-Dioxane	<0.080		5.0	0.080	ppb v/v			08/14/15 11:33	1
2-Butanone (MEK)	<0.20		1.0	0.20	ppb v/v			08/14/15 11:33	1
4-Methyl-2-pentanone (MIBK)	<0.045		0.50	0.045	ppb v/v			08/14/15 11:33	1
Acetone	<1.4		5.0	1.4	ppb v/v			08/14/15 11:33	1
Benzene	<0.056		0.20	0.056	ppb v/v			08/14/15 11:33	1
Benzyl chloride	<0.078		0.80	0.078	ppb v/v			08/14/15 11:33	1
Bromodichloromethane	<0.044		0.20	0.044	ppb v/v			08/14/15 11:33	1
Bromoform	<0.048		0.20	0.048	ppb v/v			08/14/15 11:33	1
Bromomethane	<0.032		0.20	0.032	ppb v/v			08/14/15 11:33	1
Carbon disulfide	<0.031		0.50	0.031	ppb v/v			08/14/15 11:33	1
Carbon tetrachloride	<0.038		0.20	0.038	ppb v/v			08/14/15 11:33	1
Chlorobenzene	<0.049		0.20	0.049	ppb v/v			08/14/15 11:33	1
Chloroethane	<0.035		0.80	0.035	ppb v/v			08/14/15 11:33	1
Chloroform	<0.038		0.20	0.038	ppb v/v			08/14/15 11:33	1
Chloromethane	<0.16		0.50	0.16	ppb v/v			08/14/15 11:33	1
cis-1,2-Dichloroethene	<0.060		0.20	0.060	ppb v/v			08/14/15 11:33	1
cis-1,3-Dichloropropene	<0.074		0.20	0.074	ppb v/v			08/14/15 11:33	1
Cyclohexane	<0.040		0.50	0.040	ppb v/v			08/14/15 11:33	1
Dibromochloromethane	<0.042		0.20	0.042	ppb v/v			08/14/15 11:33	1
Dichlorodifluoromethane	<0.068		0.50	0.068	ppb v/v			08/14/15 11:33	1
Ethylbenzene	<0.068		0.20	0.068	ppb v/v			08/14/15 11:33	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-3212/4
Matrix: Air
Analysis Batch: 3212

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.078		0.20	0.078	ppb v/v			08/14/15 11:33	1
Hexane	<0.032		0.80	0.032	ppb v/v			08/14/15 11:33	1
Isopropyl alcohol	<0.094		5.0	0.094	ppb v/v			08/14/15 11:33	1
Isopropylbenzene	<0.060		0.80	0.060	ppb v/v			08/14/15 11:33	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			08/14/15 11:33	1
Methylene Chloride	0.159	J	0.50	0.13	ppb v/v			08/14/15 11:33	1
m-Xylene & p-Xylene	<0.12		0.80	0.12	ppb v/v			08/14/15 11:33	1
Naphthalene	<0.090		0.50	0.090	ppb v/v			08/14/15 11:33	1
o-Xylene	<0.061		0.20	0.061	ppb v/v			08/14/15 11:33	1
Styrene	<0.058		0.20	0.058	ppb v/v			08/14/15 11:33	1
Tetrachloroethene	<0.040		0.20	0.040	ppb v/v			08/14/15 11:33	1
Tetrahydrofuran	<0.063		5.0	0.063	ppb v/v			08/14/15 11:33	1
Toluene	<0.12		0.20	0.12	ppb v/v			08/14/15 11:33	1
trans-1,2-Dichloroethene	<0.050		0.20	0.050	ppb v/v			08/14/15 11:33	1
trans-1,3-Dichloropropene	<0.048		0.20	0.048	ppb v/v			08/14/15 11:33	1
Trichloroethene	<0.036		0.20	0.036	ppb v/v			08/14/15 11:33	1
Trichlorofluoromethane	<0.024		0.20	0.024	ppb v/v			08/14/15 11:33	1
Vinyl acetate	<0.14		5.0	0.14	ppb v/v			08/14/15 11:33	1
Vinyl bromide	<0.035		0.20	0.035	ppb v/v			08/14/15 11:33	1
Vinyl chloride	<0.071		0.20	0.071	ppb v/v			08/14/15 11:33	1
Xylenes, Total	<0.061		0.40	0.061	ppb v/v			08/14/15 11:33	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.16		1.1	0.16	ug/m3			08/14/15 11:33	1
1,1,2,2-Tetrachloroethane	<0.42		1.4	0.42	ug/m3			08/14/15 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.24		1.5	0.24	ug/m3			08/14/15 11:33	1
1,1,2-Trichloroethane	<0.29		1.1	0.29	ug/m3			08/14/15 11:33	1
1,1-Dichloroethane	<0.11		0.81	0.11	ug/m3			08/14/15 11:33	1
1,1-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/14/15 11:33	1
1,2,4-Trichlorobenzene	<0.73		15	0.73	ug/m3			08/14/15 11:33	1
1,2,4-Trimethylbenzene	<0.31		0.98	0.31	ug/m3			08/14/15 11:33	1
1,2-Dibromoethane (EDB)	<0.34		1.5	0.34	ug/m3			08/14/15 11:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.22		1.4	0.22	ug/m3			08/14/15 11:33	1
1,2-Dichlorobenzene	<0.42		1.2	0.42	ug/m3			08/14/15 11:33	1
1,2-Dichloroethane	<0.19		0.81	0.19	ug/m3			08/14/15 11:33	1
1,2-Dichloropropane	<0.24		0.92	0.24	ug/m3			08/14/15 11:33	1
1,3,5-Trimethylbenzene	<0.32		0.98	0.32	ug/m3			08/14/15 11:33	1
1,3-Dichlorobenzene	<0.39		1.2	0.39	ug/m3			08/14/15 11:33	1
1,4-Dichlorobenzene	<0.38		1.2	0.33	ug/m3			08/14/15 11:33	1
1,4-Dioxane	<0.29		18	0.29	ug/m3			08/14/15 11:33	1
2-Butanone (MEK)	<0.59		2.9	0.59	ug/m3			08/14/15 11:33	1
4-Methyl-2-pentanone (MIBK)	<0.18		2.0	0.18	ug/m3			08/14/15 11:33	1
Acetone	<3.3		12	3.3	ug/m3			08/14/15 11:33	1
Benzene	<0.18		0.64	0.18	ug/m3			08/14/15 11:33	1
Benzyl chloride	<0.40		4.1	0.40	ug/m3			08/14/15 11:33	1
Bromodichloromethane	<0.29		1.3	0.29	ug/m3			08/14/15 11:33	1
Bromoform	<0.50		2.1	0.50	ug/m3			08/14/15 11:33	1
Bromomethane	<0.12		0.78	0.12	ug/m3			08/14/15 11:33	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-3212/4
Matrix: Air
Analysis Batch: 3212

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<0.097		1.6	0.097	ug/m3			08/14/15 11:33	1
Carbon tetrachloride	<0.24		1.3	0.24	ug/m3			08/14/15 11:33	1
Chlorobenzene	<0.23		0.92	0.23	ug/m3			08/14/15 11:33	1
Chloroethane	<0.092		2.1	0.092	ug/m3			08/14/15 11:33	1
Chloroform	<0.19		0.98	0.19	ug/m3			08/14/15 11:33	1
Chloromethane	<0.33		1.0	0.33	ug/m3			08/14/15 11:33	1
cis-1,2-Dichloroethene	<0.24		0.79	0.24	ug/m3			08/14/15 11:33	1
cis-1,3-Dichloropropene	<0.34		0.91	0.34	ug/m3			08/14/15 11:33	1
Cyclohexane	<0.14		1.7	0.14	ug/m3			08/14/15 11:33	1
Dibromochloromethane	<0.36		1.7	0.36	ug/m3			08/14/15 11:33	1
Dichlorodifluoromethane	<0.34		2.5	0.34	ug/m3			08/14/15 11:33	1
Ethylbenzene	<0.30		0.87	0.30	ug/m3			08/14/15 11:33	1
Hexachlorobutadiene	<0.83		2.1	0.83	ug/m3			08/14/15 11:33	1
Hexane	<0.11		2.8	0.11	ug/m3			08/14/15 11:33	1
Isopropyl alcohol	<0.23		12	0.23	ug/m3			08/14/15 11:33	1
Isopropylbenzene	<0.29		3.9	0.29	ug/m3			08/14/15 11:33	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			08/14/15 11:33	1
Methylene Chloride	0.554	J	1.7	0.45	ug/m3			08/14/15 11:33	1
m-Xylene & p-Xylene	<0.52		3.5	0.52	ug/m3			08/14/15 11:33	1
Naphthalene	<0.47		2.6	0.47	ug/m3			08/14/15 11:33	1
o-Xylene	<0.26		0.87	0.26	ug/m3			08/14/15 11:33	1
Styrene	<0.25		0.85	0.25	ug/m3			08/14/15 11:33	1
Tetrachloroethene	<0.27		1.4	0.27	ug/m3			08/14/15 11:33	1
Tetrahydrofuran	<0.19		15	0.19	ug/m3			08/14/15 11:33	1
Toluene	<0.45		0.75	0.45	ug/m3			08/14/15 11:33	1
trans-1,2-Dichloroethene	<0.20		0.79	0.20	ug/m3			08/14/15 11:33	1
trans-1,3-Dichloropropene	<0.22		0.91	0.22	ug/m3			08/14/15 11:33	1
Trichloroethene	<0.19		1.1	0.19	ug/m3			08/14/15 11:33	1
Trichlorofluoromethane	<0.13		1.1	0.13	ug/m3			08/14/15 11:33	1
Vinyl acetate	<0.49		18	0.49	ug/m3			08/14/15 11:33	1
Vinyl bromide	<0.15		0.87	0.15	ug/m3			08/14/15 11:33	1
Vinyl chloride	<0.18		0.51	0.18	ug/m3			08/14/15 11:33	1
Xylenes, Total	<0.26		1.7	0.26	ug/m3			08/14/15 11:33	1

Lab Sample ID: LCS 140-3212/1002
Matrix: Air
Analysis Batch: 3212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	6.00	5.55		ppb v/v		92	60 - 140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	14	13.2		ug/m3		92	60 - 140

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

Client Sample ID: VP-1 — **Lab Sample ID: 500-99813-1**
Date Collected: 08/12/15 09:20
Date Received: 08/13/15 10:00
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	3211	08/13/15 18:03	HMT	TAL KNX
Total/NA	Analysis	TO-15	DL	1	3212	08/14/15 12:13	HMT	TAL KNX

Client Sample ID: VP-2 — **Lab Sample ID: 500-99813-2**
Date Collected: 08/12/15 09:45
Date Received: 08/13/15 10:00
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	3211	08/13/15 19:32	HMT	TAL KNX
Total/NA	Analysis	TO-15	DL	1	3212	08/14/15 12:54	HMT	TAL KNX

Laboratory References:
TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: Giles Engineering Associates
Project/Site: Proposed Development

TestAmerica Job ID: 500-99813-1

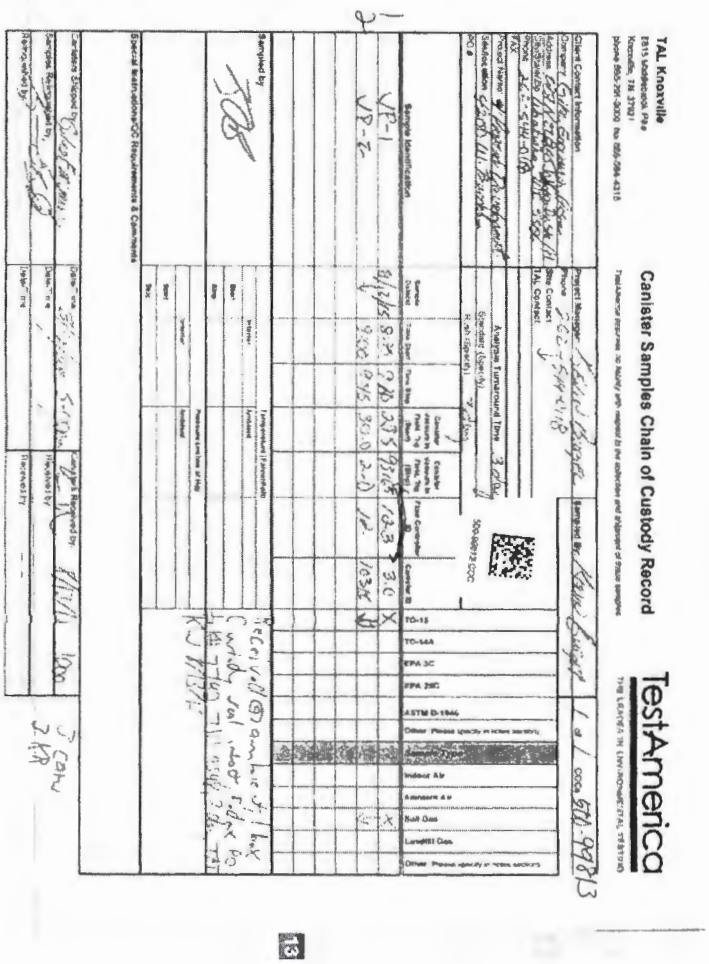
Laboratory: TestAmerica Chicago
The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

Laboratory: TestAmerica Knoxville
The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998044300	08-31-15

* Certification renewal pending - certification considered valid



TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Gites Engineering Victor
Address: 138 N Prairie Sch Dr Ste 141
City/State/Zip: Waukesha, WI 53186
Phone: 262-544-0118
FAX:

Project Manager: Kevin Burger
Phone: 262-544-0118
Site Contact:
TAL Contact:

Sampled By: Kevin Burger

1 of 1 COCs

Project Name: 4th Parcel Development
Site/location: 4200 W. Burnham
PO #

Analysis Turnaround Time
Standard (Specify): 3 day
Rush (Specify): 3 day

500-98813 Chain of Custody

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
VP-1	8/12/15	8:35	9:20	28.5	9.5	123	3.0	X									X		
VP-2	↓	9:00	9:45	30.0	2.0	12	1038	↓									↓		

Sampled by: JCB

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

Received @ ambient, 1 box
Custody seal intact, FedEx PO
tr# 7743 7111 9548, 3 day, TAT
KW 8/13/15

Special Instructions/QC Requirements & Comments:

Canisters Shipped by: Gites Engineering	Date/Time: 8/12/2015 5:00pm	Canisters Received by:	Date/Time: 8/13/15 1000
Samples Relinquished by:	Date/Time: " "	Received by	
Relinquished by	Date/Time	Received by	

3 cans
3 KR

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 500-99813-1

Login Number: 99813
List Number: 2
Creator: Wilson, Ken

List Source: TestAmerica Knoxville
List Creation: 08/13/15 01:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This s checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: g1
Date: 8/13/2015

Analyst	Sample ID	Asset #	Cleaning Job	Cert	Size (L)	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
HMT	500-99813-a-1	10118	3444	B	6	-3.9	14:18	
HMT	500-99813-a-2	10315	3444	B	6	-1.0	14:18	

TestAmerica Knoxville
Login Sample Receipt Checklist

Login Number: _____ Initials/Date: KW 8/13/15

Question	YES	No	N/A	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.			X	
The cooler's custody seal, if present, is intact.	/			
Sample custody seals, if present, are intact.			/	
The cooler or samples do not appear to have been compromised or tampered with.	/			
Samples were received on ice.			X	
Cooler Temperature is acceptable.			X	
Cooler Temperature is recorded.			X	
COC is present.	/			
COC is filled out in ink and legible.	/			
COC is filled out with all pertinent information.	/			
Is the Field Sampler's name present on COC?	/			
There are no discrepancies between the containers received and the COC.	/			
Samples are received within Holding Time.	/			
Sample containers have legible labels.	/			
Containers are not broken or leaking.			/	Checked in lab
Sample collection cartridges are provided.	/			
Appropriate sample containers are used.	/			
Sample bottles are completely filled.			X	
Sample Preservation Verified.			X	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs.			X	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").			X	
Multiphasic samples are not present.			X	
Samples do not require splitting or compositing.			X	
Residual Chlorine Checked.			X	
General Comments:				

SOP 1R0, 4/10/14

ORIGIN 02AA (865)544-9118
PRISM INC
CLIFF ENGINEERING ASSOCIATES INC
2457 SOUTH JOHNSON DRIVE
WALDESHA, W 53186
UNITED STATES US

SHIP DATE: 13AUG15
ACTWGT: 1.00 LB
CAD: 3597101/INET3610

TO SAMPLE RECEIVING
TEST AMERICA
5815 MIDDLEBROOK PIKE
KNOXVILLE TN 37921
(865)254-3260

REF:
INV:
PO:
DEPT:

BILL RECIPIENT

FedEx Express

TRK# 7742 7111 9548

THU - 13 AUG 10:30A
PRIORITY OVERNIGHT

NC RKWA

37921
TN-US TYS

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-3444-1
SDG No.:
Client Sample ID: 10170 | Lab Sample ID: 140-3444-2
Matrix: Air | Lab File ID: LOT3444.D
Analysis Method: TO 15 LL | Date Collected: 07/23/2015 16:15
Sample wt/vol: 500(mL) | Date Analyzed: 07/27/2015 07:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 3099 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
71-43-2	Benzene	ND		0.080
100-44-7	Benzyl chloride	ND		0.16
74-83-9	Bromomethane	ND		0.080
56-23-5	Carbon tetrachloride	ND		0.040
108-90-7	Chlorobenzene	ND		0.080
75-00-3	Chloroethane	ND		0.080
87-61-6	1,2,3-Trichlorobenzene	ND		0.40
67-66-3	Chloroform	ND		0.080
96-18-4	1,2,3-Trichloropropane	ND		0.20
74-87-3	Chloromethane	ND		0.20
95-50-1	1,2-Dichlorobenzene	ND		0.080
541-73-1	1,3-Dichlorobenzene	ND		0.080
106-46-7	1,4-Dichlorobenzene	ND		0.080
75-71-8	Dichlorodifluoromethane	ND		0.080
75-34-3	1,1-Dichloroethane	ND		0.080
107-06-2	1,2-Dichloroethane	ND		0.080
75-35-4	1,1-Dichloroethene	ND		0.080
156-59-2	cis-1,2-Dichloroethene	ND		0.080
78-87-5	1,2-Dichloropropane	ND		0.080
123-91-1	1,4-Dioxane	ND		0.20
78-93-3	2-Butanone	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.080
95-49-8	2-Chlorotoluene	ND		0.16
10061-02-6	trans-1,3-Dichloropropene	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080
591-78-6	2-Hexanone	ND		0.20
107-05-1	3-Chloropropene	ND		0.080
100-41-4	Ethylbenzene	ND		0.080
622-96-8	4-Ethyltoluene	ND		0.16
75-69-4	Trichlorofluoromethane	ND		0.080
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20
87-68-3	Hexachlorobutadiene	ND		0.080
67-64-1	Acetone	ND		2.0
75-09-2	Methylene Chloride	ND		0.20
75-05-8	Acetonitrile	ND		0.40
100-42-5	Styrene	ND		0.080

FORM I TO 15 LL

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-3444-1
SDG No.:
Client Sample ID: 10170 | Lab Sample ID: 140-3444-2
Matrix: Air | Lab File ID: LOT3444.D
Analysis Method: TO 15 LL | Date Collected: 07/23/2015 16:15
Sample wt/vol: 500(mL) | Date Analyzed: 07/27/2015 07:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 3099 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080
107-02-8	Acrolein	ND		0.16
107-13-1	Acrylonitrile	ND		0.80
127-18-4	Tetrachloroethene	ND		0.040
98-83-9	Alpha Methyl Styrene	ND		0.16
108-88-3	Toluene	ND		0.12
120-82-1	1,2,4-Trichlorobenzene	ND		0.080
71-55-6	1,1,1-Trichloroethane	ND		0.080
75-27-4	Bromodichloromethane	ND		0.080
79-00-5	1,1,2-Trichloroethane	ND		0.080
75-25-2	Bromoform	ND		0.080
79-01-6	Trichloroethene	ND		0.040
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	ND		0.080
106-97-8	Butane	0.33		0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.080
75-15-0	Carbon disulfide	ND		0.20
75-01-4	Vinyl chloride	ND		0.040
95-47-6	o-Xylene	ND		0.080
75-45-6	Chlorodifluoromethane	ND		0.080
179601-23-1	m-Xylene & p-Xylene	ND		0.080
106-93-4	1,2-Dibromoethane	ND		0.080
110-82-7	Cyclohexane	ND		0.20
124-18-5	n-Decane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.080
74-95-3	Dibromomethane	ND		0.16
112-40-3	n-Dodecane	ND		0.40
64-17-5	Ethanol	ND		2.0
141-78-6	Ethyl Acetate	ND		0.80
60-29-7	Ethyl ether	ND		0.80
142-82-5	n-Heptane	ND		0.20
110-54-3	Hexane	ND		0.20
67-63-0	Isopropyl alcohol	ND		0.80
80-62-6	Methyl methacrylate	ND		0.20
1634-04-4	Methyl tert-butyl ether	ND		0.16
91-20-3	Naphthalene	ND		0.20

FORM I TO 15 LL

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-3444-1
SDG No.:
Client Sample ID: 10170 | Lab Sample ID: 140-3444-2
Matrix: Air | Lab File ID: LOT3444.D
Analysis Method: TO 15 LL | Date Collected: 07/23/2015 16:15
Sample wt/vol: 500(mL) | Date Analyzed: 07/27/2015 07:36
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 3099 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
104-51-8	n-Butylbenzene	ND		0.16
103-65-1	N-Propylbenzene*	ND		0.16
111-65-9	n-Octane	ND		0.16
109-66-0	Pentane	ND		0.40
115-07-1	Propene	ND		0.20
135-98-8	sec-Butylbenzene	ND		0.16
98-06-6	tert-Butylbenzene	ND		0.16
109-99-9	Tetrahydrofuran	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.080
1120-21-4	Undecane	ND		0.40
108-05-4	Vinyl acetate	ND		0.40
593-60-2	Vinyl bromide	ND		0.080
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080
934-80-5	1,2-Diethyl-4-Ethylbenzene	ND		0.080
90-12-0	1-Methylnaphthalene	ND		1.0
565-75-3	2,3-Dimethylheptane	ND		0.080
592-27-8	2-Ethylheptane	ND		0.080
611-14-3	2-Ethyltoluene	ND		0.080
91-57-6	2-Methylnaphthalene	ND		1.0
616-44-4	3-Methylthiophene	ND		0.080
95-15-8	Benzo[b]thiophene	ND		0.16
110-02-1	Thiophene	ND		0.080
1678-93-9	Butylcyclohexane	ND		0.080
526-73-8	1,2,3-Trimethylbenzene	ND		0.080
108-70-3	1,3,5-Trichlorobenzene	ND		0.16
540-84-1	2,2,4-Trimethylpentane	ND		0.080
71-36-3	1-Butanol	ND		0.80
565-59-3	2,3-Dimethylpentane	ND		0.080
7[illegible]-00-4	3-Ethyltoluene	ND		0.080
107-83-5	2-Methylpentane	ND		0.080
75-07-0	Acetaldehyde	ND		4.0
98-82-8	Cumene	ND		0.16
496-11-7	Indane	ND		0.080
95-13-6	Indene	ND		0.16

FORM I TO 15 LL

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-3444-1
SDG No.:
Client Sample ID: 10170 | Lab Sample ID: 140-3444-2
Matrix: Air | Lab File ID: LOT3444.D
Analysis Method: TO 15 LL | Date Collected: 07/23/2015 16:15
Sample wt/vol: 500(mL) | Date Analyzed: 07/27/2015 07:36
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 3099 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
99-87-6	p-Cymene	ND		0.080
75-65-0	tert-Butanol	ND		0.80
108-87-2	Methylcyclohexane	ND		0.080
111-84-2	n-Nonane	ND		0.20

FORM I TO 15 LL

Report Date: 27-Jul-2015 11:21:33 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20150722-1896.b\LOT3444.D
Lims ID: 140-3444-A-2 Lab Sample ID: 140-3444-2
Client ID: 10170
Sample Type: Client
Inject. Date: 27-Jul-2015 07:38:30 ALS Bottle#: 12 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10170
Misc. Info.: E072615,TO15S,,140-0001867-022
Operator ID: 7126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20150722-1896.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 27-Jul-2015 11:20:16 Calib Date: 12-May-2015 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20150512-1656.b\EE15C09.D

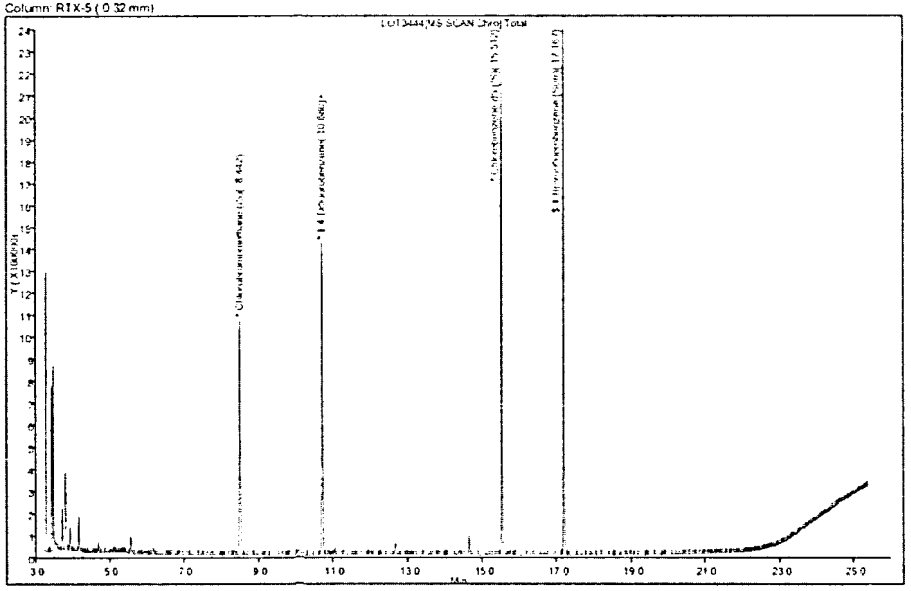
Column 1: RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: tajh Date: 27-Jul-2015 08:39:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.442	8.448	-0.006	94	282873	4.00	
* 2 1,4-Difluorobenzene	114	10.680	10.680	0.000	97	1224889	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.512	15.512	0.000	92	1089879	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	17.167	17.167	0.000	86	780268	3.87	
14 Butane	43	3.864	3.864	0.000	93	75492	0.3339	
19 2-Methylbutane	43	4.630	4.635	-0.005	93	17920	0.1215	
25 Pentane	72	5.061	5.061	0.000	98	1527	0.0770	
31 Methylene Chloride	84	5.886	5.892	-0.006	91	6632	0.0571	
40 Hexane	56	7.693	7.693	0.000	52	2031	0.0157	
44 Tetrahydrofuran	42	8.879	8.852	0.027	90	7824	0.0546	
50 Carbon tetrachloride	117	10.125	10.130	-0.005	96	5728	0.0204	
62 4-Methyl-2-pentanone (MIBK	43	12.632	12.621	0.011	99	43747	0.1717	

Reagents:
MAissur1_00002 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 27-Jul-2015 11:21:33 Chrom Revision: 2.2 09-Jul-2015 10:16:20
TestAmerica Knoxville
Data File: \\ChromNA\Knoxville\ChromData\ME\20150722-1896.b\LOT3444.D
Injection Date: 27-Jul-2015 07:38:30 Instrument ID: ME Operator ID: 7126
Lims ID: 140-3444-A-2 Lab Sample ID: 140-3444-2 Worklist Smp#: 22
Client ID: 10170
Purge Vol: 500.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm)



Report Date: 27-Jul-2015 11:21:33 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20150722-1896.b\LOT3444.D				
Injection Date:	27-Jul-2015 07:38:30	Instrument ID:	ME		
Lims ID:	140-3444-A-2	Lab Sample ID:	140-3444-2		
Client ID:	10170				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

14 Butane, CAS: 106-97-8

