

SCS ENGINEERS

March 24, 2017
File No. 25216186.00

Mr. Doug Cieslak
Wisconsin Department of Natural Resources
141 NW Barstow St., Room 180
Waukesha, WI 53188

Subject: Site Investigation Update
Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, Wisconsin
BRRTS #02-30-245843

Dear Mr. Cieslak:

SCS Engineers (SCS) is providing the following summary of recent site investigation work performed for the Arctic Laundry & Cleaners project site located at 5619 22nd Avenue, Kenosha, Wisconsin (**Figure 1** and **Figure 2**).

A release of dry cleaning solvent tetrachloroethene (PCE) occurred at the subject property while operating as the Arctic Laundry & Cleaners. Soil and groundwater contamination was identified in 1994. Based on February 2017 sampling results, PCE remains in soil at concentrations in excess of the groundwater pathway standard, but at concentrations which are not considered a human direct contact threat. Solvent also remains in groundwater, but at concentrations which do not exceed the drinking water standard.

February 2017 sub-slab vapor sampling results for the subject property building show a potential for solvent vapor to migrate into indoor at concentrations that could pose a health risk. However, indoor air sample results indicate that solvent vapors are not present in indoor air on the first or second floors of the building at concentrations that would pose a health risk. Trichloroethene (TCE), a degradation product of PCE, was detected in the basement indoor air sample at a concentration indicating a potential health risk for a residential setting, but not for a commercial setting.

Based on the recent sampling results, SCS recommends vapor assessment at two neighboring buildings and assessment of a vapor mitigation system for the source property building.

BACKGROUND

The subject property was formerly operated as a dry cleaning facility and is located in an area of mixed commercial and residential properties. The property is occupied by a two-story building with a basement, first floor commercial spaces, and second floor residential apartment.



According to the Wisconsin Department of Natural Resources (WDNR), spent dry cleaning solvent had been discharged to ground surface behind (east of) the facility up until sometime in 1984 and a dry cleaning solvent spill, which reached a basement floor sump, had occurred inside the facility in February 1994. On May 4, 1994, the WDNR sent a “responsible party” letter to the property owner requiring investigation and cleanup of the spent solvent.

Soil and groundwater contamination, consistent with a dry cleaning solvent release, was identified during prior investigation activities performed by Sigma Environmental Services, Inc. (Sigma) in August 1994. Sigma’s initial work included installation and sampling of one direct-push (DP) soil boring (GP-1). The extent of the contamination was further delineated by Sigma in October 1995 by installing and sampling five additional DP soil borings (GP-2 through GP-6). Sigma’s boring locations are shown on **Figure 2**.

Investigation findings were summarized in Sigma’s reports dated October 26, 1994, and December 14, 1995. Sigma reported that chlorinated volatile organic compounds (CVOCs) were detected in soil and/or groundwater to the east and north of the subject property building.

CVOCs including PCE and cis-1, 2-dichloroethylene (cis-1,2-DCE) were detected in soil at concentrations up to 2,700 micrograms per kilogram. Only PCE exceeded an NR 720 residual contaminant level (RCL) and this was for the groundwater pathway RCL. CVOC soil concentrations did not exceed direct contact RCLs.

CVOCs including PCE, TCE, and cis-1,2-DCE were detected in groundwater at concentrations up to 50 micrograms per liter. Only PCE was detected in excess of an NR 140 groundwater enforcement standard (ES).

RECENT SITE INVESTIGATION

SCS completed recent site investigation activities consistent with SCS’s October 25, 2016 Site Investigation Work Plan and follow-up communications with the WDNR. Work included installation and sampling of soil borings and groundwater monitoring wells as well as a vapor assessment for the source property building. The field work was performed in February 2017.

Soil and Groundwater Sampling

Methods

On February 6, 2017, SCS oversaw installation of eight DP borings (GP-7 through GP-11 and MW-1 through MW-3), which were advanced to a depth of 15 feet below ground surface (bgs). The DP drilling rig was operated by On-site Environmental Services, Inc. (On-site) of Sun Prairie, Wisconsin. Boring locations are shown on **Figure 2**. Boring logs and borehole abandonment forms are included in **Attachment A**.

Soil from each boring was analyzed for volatile organic compounds (VOCs) in the field using a hand-held photoionization detector (PID). SCS collected two soil samples from each boring for laboratory analysis. The samples were selected based on PID readings and visual observation of the soil. Groundwater grab samples were also collected from borings GP-7 through GP-11 for laboratory analysis. The samples were properly containerized and preserved, and then transported under chain of custody to TestAmerica of Chicago, Illinois, for analysis of VOCs via laboratory method 8260B.

Two-inch-diameter groundwater monitoring wells were constructed at the MW-1 through MW-3 boring locations using hollow-stem augers. Each well was constructed with 10-foot PVC well screens and riser pipe, a locking well plug, and flush mount protective well casing. The wells were constructed and developed consistent with NR 141 standards. SCS surveyed the top of each well casing to mean sea level. Well construction and development forms are included in **Attachment A**.

On February 21, 2017, SCS measured water levels and collected a groundwater sample from each monitoring well for laboratory analysis of VOCs. The samples were properly containerized and preserved, and then transported to TestAmerica of Chicago, Illinois, under chain of custody for analysis of VOCs via laboratory method 8260B.

Investigation-derived waste, including soil cuttings, monitoring well development water, and monitoring well sampling purge water, was containerized for disposal. Monitoring well development water was transported to the Madison Metropolitan Sewerage District (MMSD) for discharge. MMSD disposal documentation is included in **Attachment B**. Soil cuttings from the DP borings and monitoring well installation and monitoring well sampling purge water were contained in 55-gallon steel drums and left on site for future disposal.

Findings

Site soils include up to 5 feet of sandy fill underlain by clay or silt to a maximum investigation depth of 15 feet bgs. Groundwater was observed within silt soil at a depth of approximately 9 feet bgs.

Soil and groundwater laboratory analytical reports are included in **Attachment C** and summarized in **Table 1** and **Table 2**. The sampling results indicate that PCE remains in soil at concentrations in excess of WDNR's groundwater pathway residual contaminant level (RCL). The PCE concentrations do not exceed WDNR's non-industrial direct contact RCL. The estimated extent of PCE in soil is shown on **Figure 3**.

VOCs were not detected in groundwater samples collected from borings GP-7 through GP-11, and VOCs were not detected in excess of an ES in any of the monitoring well samples. PCE was detected in only the sample from downgradient monitoring well MW-3 at a concentration above the preventative action limit, but below the ES.

Water levels measured at each monitoring well are summarized in **Table 5** and were used to create the water table map included as **Figure 4**. Groundwater flow is to the northwest at a gradient of approximately 0.02.

Vapor Assessment

Methods

On February 6, 2017, SCS set up 24-hour indoor air and outdoor (background) Summa canisters at the subject property building. The sample locations are shown on **Figure 2**. One canister was placed on each level of the building, including the basement, first floor, and second floor. The background air canister was set outside the east side of the building. Vapor assessment sample collection logs are included in **Attachment D**.

On February 7, 2017, SCS collected the indoor and background air sampling canisters and sampled the building sub-slab. Three sub-slab vapor probes (SS-1 through SS-3) were installed through the basement slab and sampled over a 30-minute period. SCS's sampling manifold, tubing, fittings, and the sub-slab probe seals were verified to have no leaks prior to sampling each probe. The sub-slab sample locations were selected based on access and sub-slab conditions. Vapor assessment sample collection logs are included in **Attachment D**.

All vapor assessment samples were properly containerized and transported to Pace Analytical Services, LLC of Minneapolis, Minnesota, under chain of custody for analysis of VOCs via method TO-15.

Findings

SCS observed that the basement slab is relatively thin and that underlying sub-slab material may be saturated by groundwater within a few inches under the slab. This is consistent with the basement depth and the depth to groundwater observed in site monitoring wells (approximately 9 feet bgs).

Vapor assessment laboratory reports are included in **Attachment E** and summarized in **Table 3** and **Table 4**. VOCs were detected in all indoor air samples, but only TCE in the basement indoor air sample was detected at a concentration in excess of WDNR's residential indoor air vapor action level (VAL). All sub-slab samples show PCE and TCE at concentrations in excess of WDNR commercial vapor risk screening levels (VRSLs).

Basement Sump

As required by WDNR, SCS inspected the basement floor sump inside the source property building (**Figure 2**). The sump is located in approximately the middle of the basement. Photos are included in **Attachment F**.

Water (assumed to be groundwater) was observed in the sump during the above-noted vapor assessment sampling. An electric sump pump was present in the sump and connected to PVC piping, which appeared to discharge to ground surface outside the east end of the building. SCS observed the pump in operation at least once during the vapor assessment sampling.

SUMMARY

Based on the recent sampling results, PCE remains in soil at concentrations in excess of the groundwater pathway RCL, but not in excess of the residential direct contact RCL. VOCs do not appear to remain in groundwater at concentrations in excess of ESs. It is likely that the building foundation, asphalt pavement, and relatively low permeability clay and silt soils have limited the leaching of VOCs from the soil into groundwater.

Based on vapor assessment sampling results, VOCs are not present in excess of residential indoor VALs in the building first floor, second floor, or background air. TCE was detected in the basement indoor air sample at a concentration in excess of the residential VAL, but did not exceed the commercial VAL. Sub-slab CVOC concentrations exceed commercial VRSLs and suggest a potential vapor intrusion risk.

RECOMMENDATIONS

SCS recommends the following additional work:

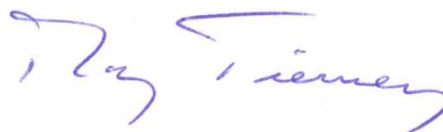
- Evaluate options for a mitigation system to address the elevated sub-slab vapor concentrations at the source property building. A typical sub-slab ventilation system may not be feasible due to a relatively shallow water table.
- Conduct vapor assessments for the neighboring buildings at 5605 and 5621 22nd Avenue to assess the potential for vapor intrusion.

Please feel free to contact Robert Langdon at (608) 216-7329 if you have any questions or comments concerning our proposed program.

Sincerely,



Robert Langdon
Senior Project Manager
SCS ENGINEERS



Ray Tierney, PG
Vice President
SCS ENGINEERS

REL/lmh/RT

Mr. Doug Cieslak
March 24, 2017
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cc: Roy Baietto
Vanessa Wishart, Stafford Rosenbaum LLP (e-copy)
Paul Kent, Stafford Rosenbaum LLP (e-copy)

Attachments: Table 1 – Soil Analytical Results Summary
 Table 2 – Groundwater Analytical Results Summary
 Table 3 – Indoor Air Analytical Results Summary
 Table 4 – Sub-Slab Vapor Analytical Results Summary
 Table 5 – Water Level Summary
 Figure 1 – Site Location Map
 Figure 2 – Site Features Map
 Figure 3 – Soil Contamination
 Figure 4 – Water Table Map February 21, 2017
 Attachment A – Field Forms
 Attachment B – Disposal Documentation
 Attachment C – Soil and Groundwater Laboratory Reports
 Attachment D – Vapor Sample Collection Logs
 Attachment E – Vapor Assessment Laboratory Reports
 Attachment F – Photos of Sump

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TABLES

- 1 Soil Analytical Results Summary
- 2 Groundwater Analytical Results Summary
- 3 Indoor Air Analytical Results Summary
- 4 Sub-Slab Vapor Analytical Results Summary
- 5 Water Level Summary

Table 1. Soil Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
 (Results are in µg/kg)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Other VOCs
GP-1	8/23/1994	1-3	0.0	--	<u>79</u>	<1	<1	<1	<3	o-Xylene 1.4
	8/23/1994	5-7	44.5	--	<u>2,700</u>	<1	<1	<1	<3	ND
GP-2	10/20/1995	7-9	0.8	--	<1	<1	<1	<1	<3	ND
GP-3	10/20/1995	7-9	0.0	--	<1	<1	<1	<1	<3	n-Butylbenzene 1.3
GP-4	10/20/1995	9-11	0.0	--	<1	<u>7.9</u>	24 ^{B1, F1}	<1	<3	ND
GP-5	10/20/1995	11-13	0.0	--	<1	<1	<1	<1	<3	ND
GP-6	10/20/1995	13-15	0.0	--	<1	<1	<1	<1	<3	ND
GP-7	2/6/2017	0-2	0.5	(1)	<45	<20	<49	<42	<32	ND
	2/6/2017	5-7.5	0.7	(1)	<34	<15	<37	<32	<24	ND
GP-8	2/6/2017	2.5-5	0.4	(1)	<u>170</u>	<17	<43	<37	<27	ND
	2/6/2017	5-7.5	0.5	(1)	<u>1,100</u>	<19	<48	<41	<31	ND
GP-9	2/6/2017	2.5-5	0.5	(1)	<37	<16	<41	<35	<26	ND
	2/6/2017	5-7.5	0.5	(1)	<43	<19	<47	<40	<30	ND
GP-10	2/6/2017	2.5-5	1.2	(1)	<u>850</u>	<15	<36	<31	<23	ND
	2/6/2017	5-7.5	1.1	(1)	<u>3,200</u>	<16	<40	<35	<26	ND
GP-11	2/6/2017	0-2.5	1.5	(1)	<u>15,000</u>	<15	<37	<32	<24	ND
	2/6/2017	5-7.5	2.1	(1)	<u>17,000</u>	<14	<34	<30	<22	ND
MW-1	2/6/2017	2.5-5	0.5	(1)	<34	<15	<37	<32	<24	ND
	2/6/2017	5-7.5	0.4	(1)	<61	<27	<67	<57	<43	ND
MW-2	2/6/2017	2.5-5	1.5	(1)	<u>510</u>	<15	<37	<32	<24	ND
	2/6/2017	5-7.5	1.5	(1)	<u>130</u>	<16	<41	<35	<26	ND

Table 1. Soil Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
 (Results are in µg/kg)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Other VOCs
MW-3	2/6/2017	0-2.5	1.6	(1)	<u>3,200</u>	<60	<150	<130	<95	ND
	2/6/2017	5-7.5	2.9	(1)	<u>3,000</u>	<14	<36	<31	<23	ND
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2					4.5	3.6	41.2	62.6	0.1	n-Butylbenzene NE Xylenes (m-, o-, p-combined) 3,960
NR 720 Non-Industrial Direct Contact RCLs					30,700	1,260	156,000	1,560,000	67	n-Butylbenzene 108,000 Xylenes (m-, o-, p-combined) 260,000
NR 720 Industrial Direct Contact RCLs					153,000	8,810	2,040,000	1,850,000	2,030	n-Butylbenzene 108,000 Xylenes (m-, o-, p-combined) 260,000
CAS No.					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	Xylenes: 1330-20-7 n-Butylbenzene: 104-51-8

Abbreviations:

µg/kg = micrograms per kilogram or parts per billion (ppb)
 ppm = PID measured in ppm as isobutylene
 PCE = Tetrachloroethene

TCE = Trichloroethene
 DCE = Dichloroethene
 NE = Not Established

VOCs = Volatile Organic Compounds
 VC = Vinyl Chloride
 CAS No. = Chemical Abstracts Service Number

NA = Not Analyzed
 -- = Not Applicable

Notes:

Bold+underlined values exceed NR 720 Residual Contaminant Levels (RCLs).
 NR 720 values are taken from Wisconsin Department of Natural Resources June 2016 RCL Spreadsheet.

8/23/1994 and 10/20/1995 samples collected by Sigma Environmental Services, Inc., of Oak Creek, WI
 2/6/2017 samples collected by SCS Engineers of Madison, WI

Laboratory Notes/Qualifiers:

B1 = SW 8021 quality control criteria not met. Initial calibration check standard recovery 121%. Acceptable range is 85%-115%. Sample result may be correspondingly high.
 F1 = SW 8021 quality control criteria not met. Final calibration check standard recovery 117%. Acceptable range is 85%-115%. Sample result may be correspondingly high.
 (1) Dichlorodifluoromethane = LCS or LCSD is outside acceptance limits.

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Table 2. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
 (Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	VC	cis-1,2-DCE	trans-1,2-DCE	Other VOCs
GP-1	8/25/1994	--	<u>42.0</u>	<u>1.0</u>	<3	<1	<1	Toluene <u>7.2</u>
GP-2	10/20/1995	--	<u>13</u>	<1.0	<3.0	<1.0	<1.0	ND
GP-3	10/20/1995	--	<u>50</u>	<1.0	<3.0	<1.0	<1.0	ND
GP-4	10/20/1995	--	<u>14</u>	<u>2.2</u>	<3.0	<u>6.2</u>	<1.0	ND
GP-5	10/26/1995	--	<1.0	<1.0	<3.0	<1.0	<1.0	ND
GP-6	10/26/1995	--	<1.0	<1.0	<3.0	<1.0	<1.0	ND
GP-7	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-8	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-9	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-10	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-11	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
MW-1	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
MW-2	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane <u>1.3</u>
	2/21/2017 (DUP)	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane <u>1.2</u>
MW-3	2/21/2017	--	<u>1.5</u>	<0.16	<0.20	<0.41	<0.35	ND

Table 2. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
 (Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	VC	cis-1,2-DCE	trans-1,2-DCE	Other VOCs
Trip Blank	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
NR 140 Enforcement Standards (ESs)			5	5	0.2	70	100	Toluene 800 1,2-Dichloropropane 5
NR 140 Preventive Action Limits (PALs)			0.5	0.5	0.02	7	20	Toluene 160 1,2-Dichloropropane 0.5

Abbreviations:

µg/L = micrograms per liter or parts per billion (ppb)

VC = Vinyl Chloride

NA = Not Analyzed

DCE = Dichloroethene

TCE = Trichloroethene

ND = Not Detected

PCE = Tetrachloroethene

VOCs = Volatile Organic Compounds

-- = Not Applicable

Notes:

NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from July 2015.

NR 140 PALs - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from July 2015.

Bold+underlined values meet or exceed NR 140 ESs.

Italic+underlined values meet or exceed NR 140 PALs.

8/23/1994, 10/20/1995, and 10/26/1995 samples collected by Sigma Environmental Services, Inc., of Oak Creek, WI

2/6/2017 and 2/21/2017 samples collected by SCS Engineers of Madison, WI

Laboratory Notes/Qualifiers:

None

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Table 3. Indoor Air Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
 (Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Basement	2/7/2017	--	5.6	<u>1</u>	5	<0.15	<0.12
1st Floor	2/7/2017	--	1.3	0.31	1.2	<0.15	<0.12
2nd Floor	2/7/2017	--	1.1	0.22	0.84	<0.16	<0.13
Outdoor	2/7/2017	--	1.8	<0.075	<0.092	<0.14	<0.11
Indoor Air Vapor Action Level (Residential Building)			6.2	0.39	NE	NE	0.65
Indoor Air Vapor Action Level (Commercial Building)			27	1.6	NE	NE	11

Abbreviations:

ppbV = parts per billion by volume

trans-1,2-DCE = trans-1,2-dichloroethylene

NE = not established

cis-1,2-DCE = cis-1,2-dichloroethylene

Notes:

1. Samples were collected in 6-liter summa canisters over a 24-hour period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources Quick Look-Up Table, which is based on May 2016 USEPA Regional Screening Level Tables.
3. **Bold & underlined** values exceed Indoor Air Vapor Action Levels.

Lab Notes:

None

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Table 4. Sub-Slab Vapor Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
 (Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
SS-1	2/7/2017	--	<u>418,000</u> A3, E	<u>1,290</u> A3	5.7	5.8	<0.14
SS-2	2/7/2017	--	<u>973</u>	<u>66.5</u>	1.7	11.8	<0.13
SS-3	2/7/2017	--	<u>26,100</u> A3	<u>86.4</u> A3	1.4	0.5	<0.14
Vapor Risk Screening Level (Residential Building)			210	13	NE	NE	22
Vapor Risk Screening Level (Small Commercial Building)			900	53	NE	NE	370

Abbreviations:

ppbV = parts per billion by volume

trans-1,2-DCE = trans-1,2-dichloroethylene

cis-1,2-DCE = cis-1,2-dichloroethylene

NE = not established

-- = not applicable

Notes:

1. Samples were collected in 6-liter summa canisters over a 30-minute period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Action Levels or Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources Quick Look-Up Table, which is based on May 2016 USEPA Regional Screening Level Tables.
3. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

Lab Notes:

A3 = The sample was analyzed by serial dilution.

E = Analyte concentration exceeded the calibration range. The reported result is estimated.

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Table 5. Water Level Summary
Former Arctic Laundry & Cleaners / SCS Engineers Project #25216186.00

Raw Data	Depth to Water in feet below top of well casing		
	MW1	MW2	MW3
Measurement Date			
February 21, 2017	8.53	9.67	8.04

Well Number	Ground Water Elevation in feet above mean sea level (amsl)		
	MW1	MW2	MW3
Top of Casing Elevation (feet amsl)	623.65	623.68	623.29
Screen Length (ft)	10.00	10.00	10.00
Total Depth (ft from top of casing)	13.85	14.00	13.85
Top of Well Screen Elevation (ft)	619.80	619.68	619.44
Measurement Date			
February 21, 2017	615.12	614.01	615.25
Bottom of Well Elevation (ft)	609.80	609.68	609.44

Notes:

NM = not measured

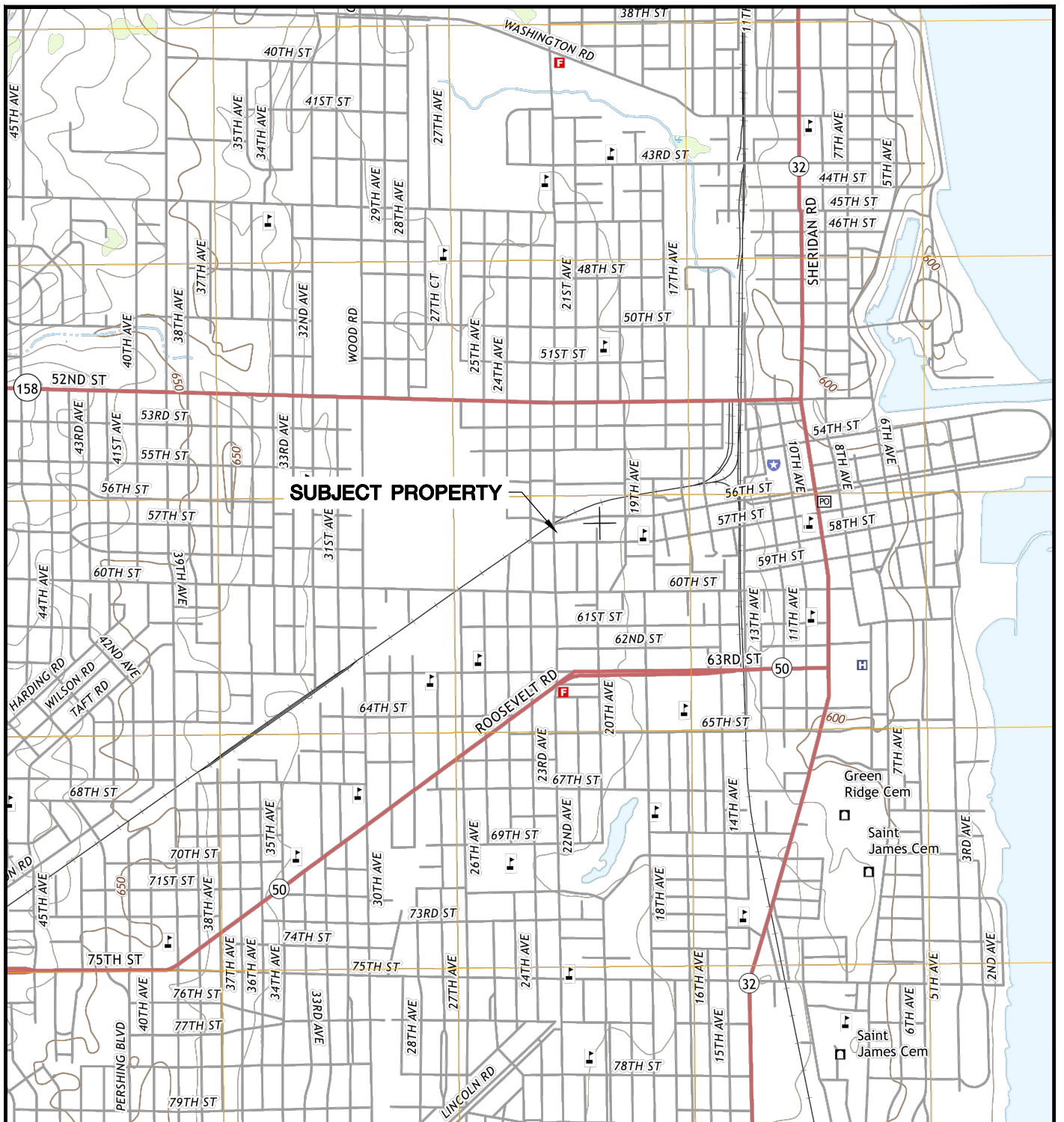
Benchmark of 625.93 feet above mean sea level marked by "X" on the top side of the hose outlet of the fire hydrant located at the northeast corner of 22nd Avenue and 57th Street.

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Checked by:	<u>JD</u>	Date: <u>2/27/2017</u>

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FIGURES

- 1 Site Location Map
- 2 Site Features Map
- 3 Soil Contamination
- 4 Water Table Map February 21, 2017

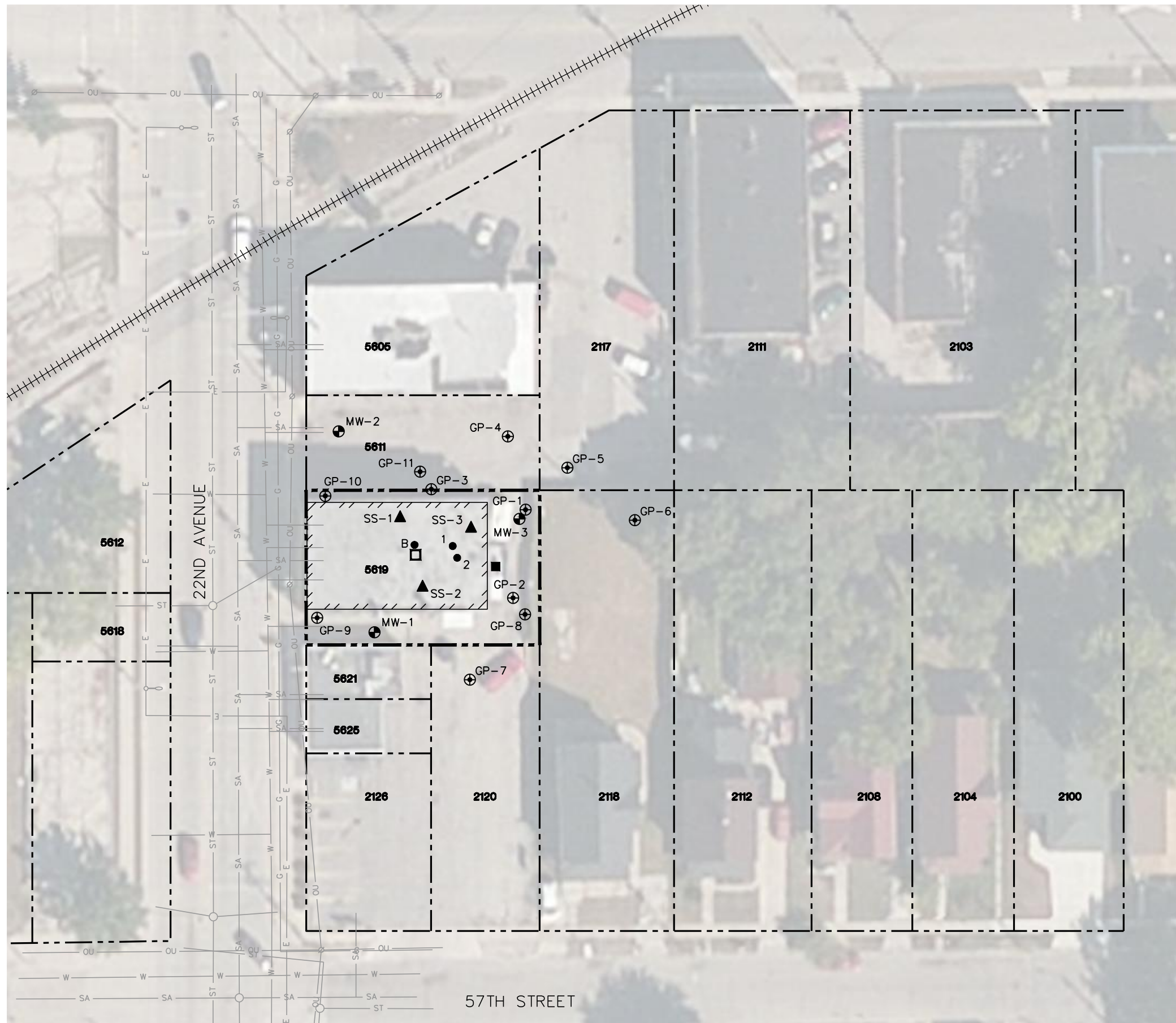


KENOSHA QUADRANGLE
 WISCONSIN—KENOSHA CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 7.5' QUADRANGLE
 2016
 SCALE: 1" = 2,000'



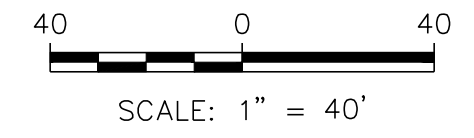
CLIENT	STAFFORD ROSENBAUM, LLP. 222 WEST WASHINGTON AVENUE MADISON, WI 53701	SITE	ARCTIC LAUNDRY AND CLEANERS 5619 22ND AVENUE KENOSHA, WISCONSIN	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718—6751 PHONE: (608) 224—2830	SITE LOCATION MAP	FIGURE 1
	PROJECT NO. 25216186.00		DRAWN BY: KP				
	DRAWN: 10/21/16						
	REVISED: 10/21/16						

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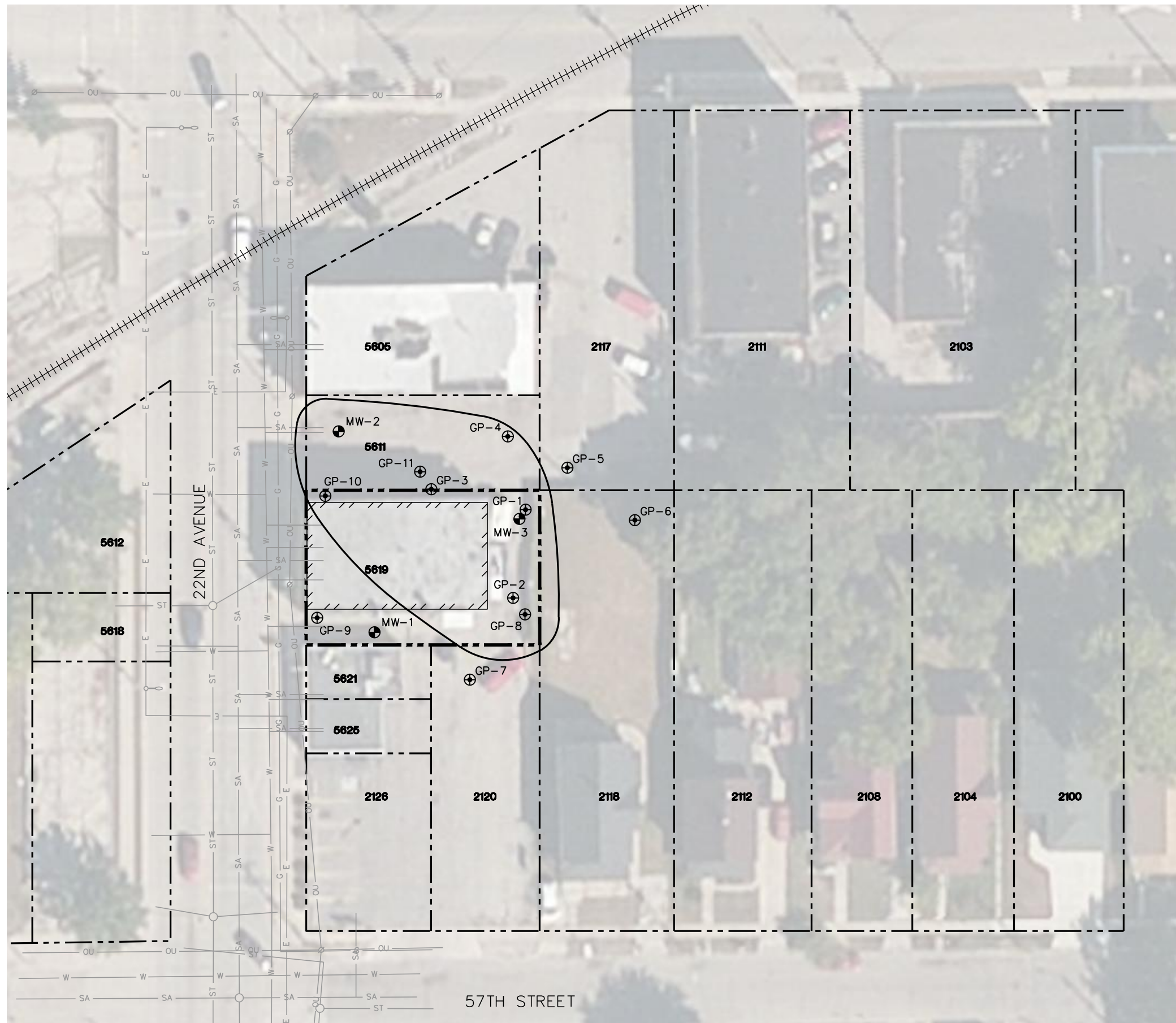
- LEGEND
- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
 - APPROXIMATE PROPERTY LINE
 - 5619** PROPERTY ADDRESS NUMBER
 - RAILROAD TRACKS
 - ELECTRIC (BURIED)
 - ELECTRIC (OVERHEAD)
 - GAS MAIN
 - SANITARY SEWER
 - STORM SEWER
 - WATER MAIN
 - UTILITY POLE
 - STREET LIGHT
 - SUMP
 - GEOPROBE BORING
 - MONITORING WELL
 - SUB-SLAB VAPOR SAMPLE
 - INDOOR AIR VAPOR SAMPLE [BASEMENT (B), FIRST FLOOR (1), SECOND FLOOR (2)]
 - OUTDOOR AIR VAPOR SAMPLE

- NOTES:
1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
 2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
 3. SAMPLE LOCATIONS ARE APPROXIMATE.



ARCTIC LAUNDRY AND CLEANERS 5619 22ND AVENUE KENOSHA, WISCONSIN	SITE	ENGINEER	SITE FEATURES MAP
PROJECT NO. 25216186.00	DRAWN BY: KP	ENGINEER	FIGURE 2
DRAWN: 10/20/16	CHECKED BY: JD		
REVISED: 01/25/17	APPROVED BY: REL 03/13/17		
STAFFORD ROSENBAUM, LLP. 222 WEST WASHINGTON AVENUE MADISON, WI 53701		SCS ENGINEERS 2830 DAIRY DRIVE, MADISON, WI 53718-6751 PHONE: (608) 224-2830	

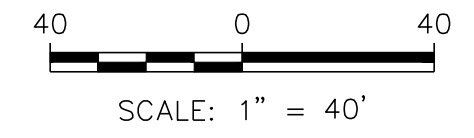
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LEGEND

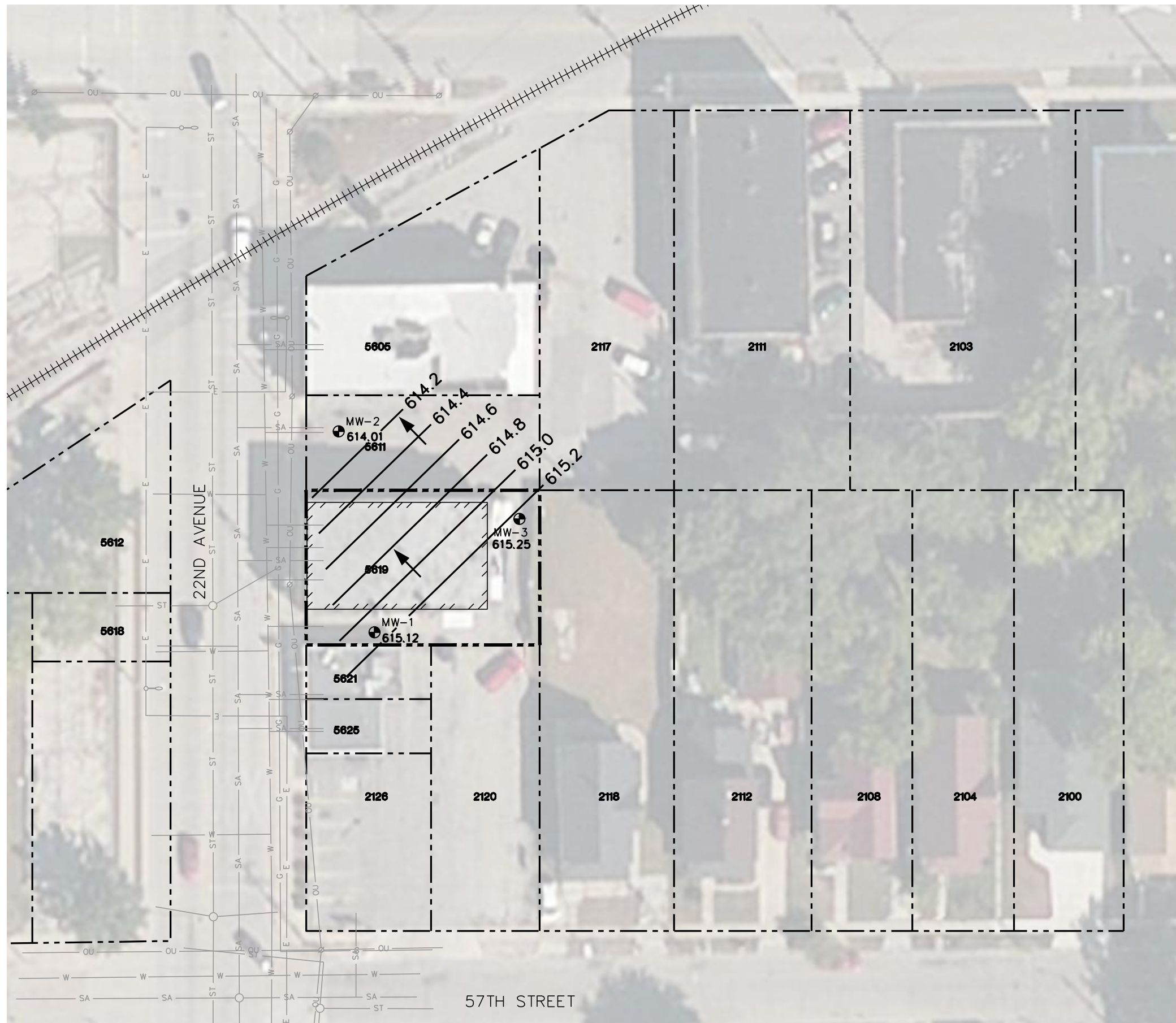
	APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
	APPROXIMATE PROPERTY LINE
5619	PROPERTY ADDRESS NUMBER
	RAILROAD TRACKS
	ELECTRIC (BURIED)
	ELECTRIC (OVERHEAD)
	GAS MAIN
	SANITARY SEWER
	STORM SEWER
	WATER MAIN
	UTILITY POLE
	STREET LIGHT
	GEOPROBE BORING
	MONITORING WELL
	ESTIMATED EXTENT OF NR720 GROUNDWATER PATHWAY RCLS

- NOTES:
1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
 2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
 3. SAMPLE LOCATIONS ARE APPROXIMATE.



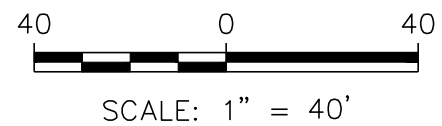
CLIENT STAFFORD ROSENBAUM, LLP. 222 WEST WASHINGTON AVENUE MADISON, WI 53701	SITE ARCTIC LAUNDRY AND CLEANERS 5619 22ND AVENUE KENOSHA, WISCONSIN	PROJECT NO. 25216186.00	DRAWN BY: KP	ENGINEER	FIGURE
				CHECKED BY: JD	3
REVISOR:	APPROVED BY: REL	DATE: 03/07/17	DATE: 03/13/17	PHONE: 2830 DAIRY DRIVE, MADISON, WI 53718-6751 (608) 224-2830	

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- LEGEND
- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
 - APPROXIMATE PROPERTY LINE
 - 5619** PROPERTY ADDRESS NUMBER
 - RAILROAD TRACKS
 - ELECTRIC (BURIED)
 - ELECTRIC (OVERHEAD)
 - GAS MAIN
 - SANITARY SEWER
 - STORM SEWER
 - WATER MAIN
 - UTILITY POLE
 - STREET LIGHT
 - MONITORING WELL
 - WATER TABLE CONTOUR
 - 615.12** WATER TABLE ELEVATION MEASURED 02.21.17
 - APPROXIMATE GROUNDWATER FLOW DIRECTION

- NOTES:
1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
 2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
 3. SAMPLE LOCATIONS ARE APPROXIMATE.



CLIENT	STAFFORD ROSENBAUM, LLP. 222 WEST WASHINGTON AVENUE MADISON, WI 53701		ARCTIC LAUNDRY AND CLEANERS 5619 22ND AVENUE KENOSHA, WISCONSIN		WATER TABLE MAP FEBRUARY 21, 2017	
	PROJECT NO.	25216186.00	DRAWN BY:	KP	ENGINEER	
DRAWN:	03/07/17	CHECKED BY:	JD	SCS ENGINEERS 2830 DAIRY DRIVE, MADISON, WI 53718-6751 PHONE: (608) 224-2830		
REVISED:	03/07/17	APPROVED BY:	REL	FIGURE 4		


ATTACHMENT A

Field Forms

Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number	Boring Number 60-7
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi			Drilling Started 2-6-17	Drilling Completed 2-6-17
DNR Facility Well No. WI Unique Well No. Common Well Name			Static Water Level	Surface Elevation Borehole Diam.
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R. 23			Lat. Long.	Local Grid Location (If applicable) N, E.
County Kenosha		DNR County Code 30	Civil Town/City/or Village Kenosha	

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties			RQD/Comments	
								Max. PID/FID	Standard Penetration	Moisture Content		
S1	X			base course, poorly sorted sand & gravel	SP			0.5		D		
S2	49"			silt, slight plasticity, dk brown lighter brown/tan	ML			0.4		M		
S3	X		5	SANDY SILT, fine sand, some gravel, light tan	ML			0.7		M	7-7'	
S4				silt, gray, not plastic	ML			0.6		W		
S5	57"		10	silt, tan, not plastic				0.3		W		
S6				more gray				0.0		W		
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

This form is authorized by Chapters 281, 283, 289, 291, 292, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture between \$10 and \$25,000, or imprisonment for up to one year, depending on program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information.

Handwritten notes and signatures at the bottom of the page.

Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number	Boring Number 6P-8
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi		Drilling Started 2-6-17	Drilling Completed 2-6-17	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R.23		Lat. Long.	Local Grid Location (If applicable) N, E.	
County Kenosha	DNR County Code 30	Civil Town/City/or Village Kenosha		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	29"	X		partly sorted sand & gravel (fin)	SP			0.4	m			
				lean clay, black	CL							
S2				silt, tan, not plastic	ML			0.4	m			
S3	41"	X	5	sandy silt, fine sand, tan	ML			0.5	m/w			~27"
				silt, tan, not plastic								
S4				same, more gray/tan				0.4	w			
S5	60"		10	same, more light gray				0.7	w			
S6												
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature:  Firm: SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number	Boring Number GP-9
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi		Drilling Started 2-6-17	Drilling Completed 2-6-17	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R.23		Lat. Long.	Local Grid Location (If applicable) N., E.	
County Kenosha	DNR County Code 30	Civil Town/City/or Village Kenosha		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1				poorly graded sand & gravel (fine)	SP			0.4		D		
S2	B74 X			lean clay, stiff, black	CL					M		
S3	X		5	tan/grey color				0.5				
S3	40'			silt, tan, not plastic	ML			0.5		M		
S4												
S5			10	Same, more light gray				0.5		W		
S5	100'							0.4		W		
S6			15	sandy silt, not plastic	ML			0.4		W		
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

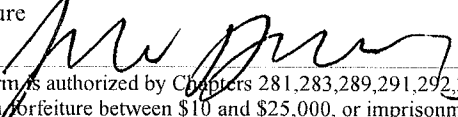
Signature  Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number		Boring Number GP-10
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi			Drilling Started 2-16-17	Drilling Completed 2-16-17	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam. 2.0
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R. 23			Lat. Long.	Local Grid Location (If applicable) N, E.	
County Kenosha		DNR County Code 30	Civil Town/City/or Village Kenosha		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1				poorly graded sand/gravel (fine)	SP			1.0		D		
S2	43"	X		Silt, black, not plastic	ML			1.2		M		
S3		X	5	same, more tan				1.1		M		
S4		X		same, gray				0.9		M		
S5		X	10							W		▽ ~10'
S6	45"	X		same, gray				2.2		W		
			15	EOB @ 15'				0.8		W		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number		Boring Number EP-11
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi			Drilling Started 2-6-17	Drilling Completed 2-6-17	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam. 2.0
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R. 23			Lat. Long.	Local Grid Location (If applicable) N, E.	
County Kenosha		DNR County Code 30	Civil Town/City/or Village Kenosha		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	X 21"			poorly graded sand + gravel (fill) black/brown, some cinders + wood.	SP			1.5		D		
S2								1.4				
S3	X 34"		5	Silt, gray/tan, not plastic	ML			2.1		M		
S4								1.5				
S5			10							W		▽ ~ 8.5'
S6	00"			Same, more gray, not tan				1.2		W		
			15	EOB @ 15'				1.1		W		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number		Boring Number MW-1
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi			Drilling Started 2-6-17	Drilling Completed 2-6-17	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level 8.10	Surface Elevation 623.65	Borehole Diam. 2.0
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R.23			Lat. Long.	Local Grid Location (If applicable) N, E.	
County Kenosha		DNR County Code 30	Civil Town/City/or Village Kenosha		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1				poorly sorted sand & gravel silt, tan, not plastic	SP ML			0.4	D			
S2	28"							0.5	M			
S3	34"		5	finely silty silt, tan, not plastic silt, tan, not plastic	ML ML			0.4	M			
S4			10	more gray/tan				0.5	W			7-7'
S5	51"			same, gray				0.5	W			
S6			15	EOB @ 15'				0.4	W			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number	Boring Number MW-2
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi		Drilling Started 2-6-17	Drilling Completed 2-6-17	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level 9.50	Surface Elevation 623.68
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R.23		Lat.	Local Grid Location (If applicable) N., E.	
County Kenosha		DNR County Code 30	Civil Town/City/or Village Kenosha	

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1				partly graded sand + gravel (fill) tan/brown	SP			1.2		D		
S2	34"	X		Silt, tan, not plastic	ML			1.5		M		
S3	43"	X	5	sandy silt, tan, fine sand Silt, more gray tan, not plastic	ML ML			1.5		M		
S4								1.4		W		▽ ~ 8.5'
S5	47"		10	same as above but gray				2.4		W		
S6			15	EOB @ 15'				1.9		W		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Facility/Project Name Arctic Laundry and Cleaners		SCS # 25216186.00	License/Permit/Monitoring Number	Boring Number MW-3
Boring Drilled By (Firm name and name of crew chief) On-site Environmental Services, Inc. Tony Kapugi			Drilling Started 2-16-17	Drilling Completed 2-16-17
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level 7.54	Surface Elevation 623.29
Boring Location State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R.23			Lat. Long.	Borehole Diam. Local Grid Location (If applicable) N., E.
County Kenosha		DNR County Code 30	Civil Town/City/or Village Kenosha	

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	X 40"			poorly graded sand + gravel (fill) silt, tan, non plastic, few ML e gravel, some clay	SP			1.6		D		
S2				silt, not plastic, tan				1.3		M		
S3	X 48"		5					2.9		M		
S4				same, gray				1.7		W		▽ ~ 8.5'
S5	40"		10	same, silt				1.8		W		
S6			15					0.9		W		
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

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Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Kenosha	WI Unique Well # of Removed Well	Hicap # GP-7	Facility Name Arctic Laundry and Cleaners
Latitude / Longitude (see instructions) N _____ W _____	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 1/4 SW or Gov't Lot #	Section 31	Township 2 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 5619 22nd Ave	Well ZIP Code 53140	Original Well Owner Ray Baietto	Present Well Owner Ray Baietto
Well City, Village or Town Kenosha	Well ZIP Code 53140	Mailing Address of Present Owner 1850 19th Avenue	City of Present Owner Kenosha
Subdivision Name	Lot #	State WI	ZIP Code 53140

3. Filled & Sealed Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason for Removal from Service Temporary Borehole	WI Unique Well # of Replacement Well	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 2-6-17	Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): geoprobe		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) 15.0	Casing Diameter (in.)	If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.) 2.0"	Casing Depth (ft.)	Required Method of Placing Sealing Material
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) ~7.0	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____
		Sealing Materials
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips
		For Monitoring Wells and Monitoring Well Boreholes Only:
		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 2-6-17	Date Received	Noted By
Street or Route 2830 Dairy Drive	Telephone Number (608) 224-2830	Comments		
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 	Date Signed 2-7-17

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County: Kenosha
 WI Unique Well # of Removed Well: _____
 Hicap #: GP-8

Latitude / Longitude (see instructions): _____ N _____ W
 Format Code: DD DDM
 Method Code: GPS008 SCR002 OTH001

1/4 1/4 SW or Gov't Lot #: _____
 Section: 31 Township: 2 N Range: 23 E W

Well Street Address: 5619 22nd Ave

Well City, Village or Town: Kenosha Well ZIP Code: 53140

Subdivision Name: _____ Lot #: _____

Reason for Removal from Service: Temporary Borehole
 WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well
 Water Well
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 2-16-17

If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): geoprobe

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): 15.0 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 2.0 Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): ~7.0

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: _____

Present Well Owner: Boy Baietto

Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner: Kenosha State: WI ZIP Code: 53140

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Liner(s) perforated? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials

Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips Bentonite - Cement Grout

Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite	Surface	15	0.48 bags	-

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing			DNR Use Only		
SCS Engineers		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
2830 Dairy Drive			2-16-17		
City		State	ZIP Code	Signature of Person Doing Work	
Madison	WI	53718	[Signature]		Date Signed
					2-7-17

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kenosha		WI Unique Well # of Removed Well		Hicap # GP-9		Facility Name Arctic Laundry and Cleaners	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)	
License/Permit/Monitoring #		Original Well Owner Boy Baietto		Present Well Owner Boy Baietto		Mailing Address of Present Owner 1850 19th Avenue	
1/4 / 1/4 SW 1/4 SW		Section 31		Township 2 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
or Gov't Lot #		Well Street Address 5619 22nd Ave		Well City, Village or Town Kenosha		Well ZIP Code 53140	
Subdivision Name		Well ZIP Code 53140		City of Present Owner Kenosha		State WI	
Reason for Removal from Service Temporary Borehole		Lot #		ZIP Code 53140			
WI Unique Well # of Replacement Well							

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): geoprobe		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Total Well Depth From Ground Surface (ft.) 15.0		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)? Depth to Water (feet) ~7.5'	

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing SCS Engineers		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 2-10-17	Date Received	Noted By
Street or Route 2830 Dairy Drive			Telephone Number (608) 224-2830	Comments	
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 	Date Signed 2-7-17	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County: Kenosha WI Unique Well # of Removed Well: _____ Hicap #: GP-10

Latitude / Longitude (see instructions): _____ N Format Code: DD Method Code: GPS008
 _____ W DDM SCR002
 OTH001

1/4 / 1/4 SW 1/4 SW Section: 31 Township: 2 N Range: E W
 or Gov't Lot #

Well Street Address: 5619 22nd Ave

Well City, Village or Town: Kenosha Well ZIP Code: 53140

Subdivision Name: _____ Lot #: _____

Reason for Removal from Service: Temporary Borehole WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 2-6-17
 Water Well If a Well Construction Report is available, please attach.
 Borehole / Drillhole

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): geoprobe

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): 15.0 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 2.0 Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet): ~10.0

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 2-6-17	Date Received	Noted By
Street or Route 2830 Dairy Drive		Telephone Number (608) 224-2830	Comments	
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 2-7-17

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: Boy Baietto

Present Well Owner: Boy Baietto

Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner: Kenosha State: WI ZIP Code: 53140

4. Pump, Liner, Screen, Casing & Sealing Material

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A
 Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material

- Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials

- Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips
- For Monitoring Wells and Monitoring Well Boreholes Only:*
- Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Kenosha	WI Unique Well # of Removed Well	Hicap # GP-11	Facility Name Arctic Laundry and Cleaners
Latitude / Longitude (see instructions)	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 / 1/4 SW or Gov't Lot #	Section 31	Township 2 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 5619 22nd Ave	Well City, Village or Town Kenosha	Well ZIP Code 53140	Original Well Owner Boy Baietto
Subdivision Name	Lot #	City of Present Owner Kenosha	Present Well Owner Boy Baietto
Reason for Removal from Service Temporary Borehole	WI Unique Well # of Replacement Well	Mailing Address of Present Owner 1850 19th Avenue	License/Permit/Monitoring #
3. Filled & Sealed Well / Drillhole / Borehole Information		State WI	ZIP Code 53140
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 2-6-17	4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Formation Type:		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) 15.0	Casing Diameter (in.)	Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)	If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) ~ 8.5	If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
5. Material Used to Fill Well / Drillhole		Required Method of Placing Sealing Material	
3/8" bentonite chips	From (ft.) Surface	To (ft.) 15.0	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped
	No. Yards, Sacks Sealant or Volume (circle one) 0.48 bags	Mix Ratio or Mud Weight -	<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 2-6-17	DNR Use Only	
Street or Route 2830 Dairy Drive	City Madison	State WI	ZIP Code 53718	Date Received
Telephone Number (608) 224-2830	Signature of Person Doing Work 	Comments	Date Signed 2-7-17	Noted By

Facility/Project Name Arctic Laundry and Cleaners	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <u>NW 581</u>	DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>02/06/2017</u> m m d d y y y y	
Type of Well Well Code _____ / _____	Section Location of Waste/Source SW <u>1/4</u> of SW <u>1/4</u> of Sec. <u>31</u> , T. <u>2</u> N., R. <u>23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Tony Kapugi On-site Environmental Services, Inc.
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input checked="" type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 623.65 ft. MSL
- C. Land surface elevation _____ ft. MSL
- D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

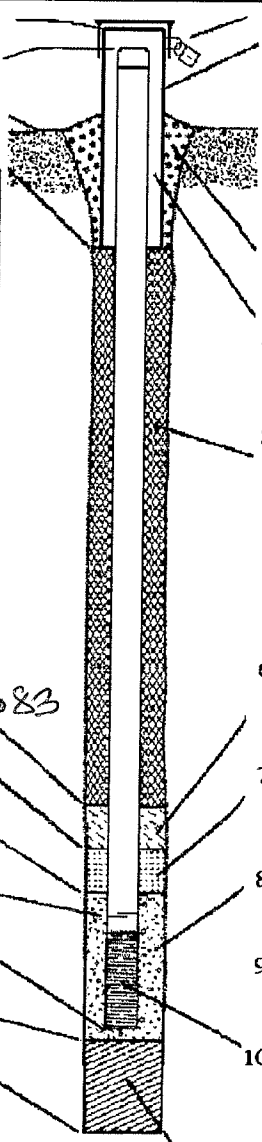
13. Sieve analysis performed? Yes No

14. Drilling method used:
 Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 8 in.
 - b. Length: 1 ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 3 0
 - Concrete 0 1
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 3 0
 - Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight Bentonite slurry 3 1
 - d. _____ % Bentonite Bentonite-cement grout 5 0
 - e. 1.25 Ft³ volume added for any of the above
 - f. How installed:
 - Tremie 0 1
 - Tremie pumped 0 2
 - Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. 30/100 BWSidley
 - b. Volume added 0.25 ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. BW Sidley #5
 - b. Volume added 2.75 ft³
- 9. Well casing:
 - Flush threaded PVC schedule 40 2 3
 - Flush threaded PVC schedule 80 2 4
 - Other
- 10. Screen material: PVC
 - a. Screen type:
 - Factory cut 1 1
 - Continuous slot 0 1
 - Other
 - b. Manufacturer monoflex
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack):
 - None 1 4
 - Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Handwritten Signature] Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Arctic Laundry and Cleaners	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " Long. " or " or "	Wis. Unique Well No. DNR Well ID No. VW582
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed 021 Oct 2017 m m d d y y y y
Type of Well Well Code /	Section Location of Waste/Source SW ₁ / ₄ of SW ₁ / ₄ of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi
Distance from Waste/Source ft.	Enf. Stds. Apply <input checked="" type="checkbox"/> Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number On-site Environmental Services, Inc.

- A. Protective pipe, top elevation ----- ft. MSL
- B. Well casing, top elevation 623.68 ft. MSL
- C. Land surface elevation ----- ft. MSL
- D. Surface seal, bottom ----- ft. MSL or ----- ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

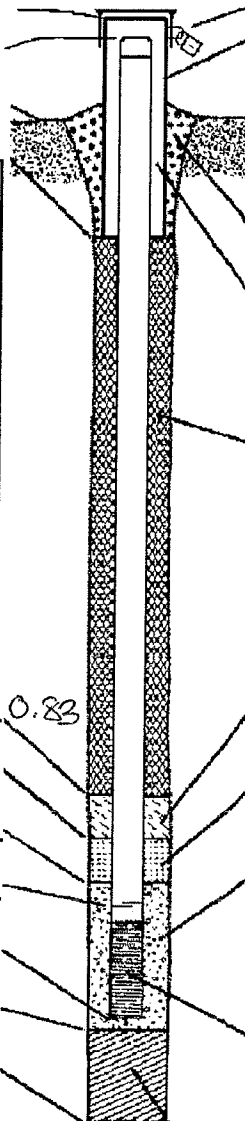
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 3.6 in.
 - b. Length: 1 ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 - d. _____ % Bentonite ... Bentonite-cement grout 50
 - e. 1.25 Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. 30/100 30/100 BWSidley
 - b. Volume added 0.25 ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. BW Sidley #5
 - b. Volume added 2.75 ft³
- 9. Well casing:
 - Flush threaded PVC schedule 40 23
 - Flush threaded PVC schedule 80 24
 - Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Martoflex
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack):
 - None 14
 - Other

- E. Bentonite seal, top 622.85 ft. MSL or 3.5 ft. 0.83
- F. Fine sand, top 620.18 ft. MSL or 3.5 ft.
- G. Filter pack, top 619.68 ft. MSL or 4.0 ft.
- H. Screen joint, top 619.18 ft. MSL or 4.5 ft.
- I. Well bottom 609.18 ft. MSL or 14.5 ft.
- J. Filter pack, bottom 609.18 ft. MSL or 14.5 ft.
- K. Borehole, bottom 608.68 ft. MSL or 15.0 ft.
- L. Borehole, diameter 3.25 in.
- M. O.D. well casing 2.85 in. 2.38
- N. I.D. well casing 2.38 in. 2.01

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Arctic Laundry and Cleaners		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-3	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed 02/06/2017	
Type of Well Well Code /		Section Location of Waste/Source SW _{1/4} of SW _{1/4} of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Tony Kapugi	
Distance from Waste/Source ft.		Enf. Stds. Apply <input checked="" type="checkbox"/>		Gov. Lot Number	
		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		On-site Environmental Services, Inc.	

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 623.29 ft. MSL
- C. Land surface elevation _____ ft. MSL
- D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

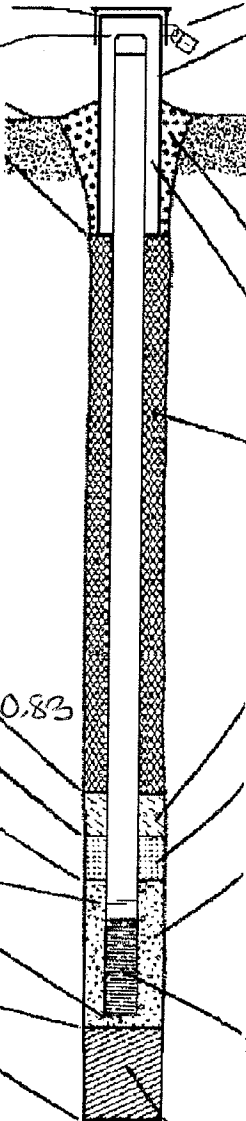
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: _____ in.
 - b. Length: _____ ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight Bentonite slurry 31
 - d. _____ % Bentonite Bentonite-cement grout 50
 - e. 1.25 Ft³ volume added for any of the above
 - f. How installed:
 - Tremie 01
 - Tremie pumped 02
 - Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. 30/100 BWSidley
 - b. Volume added 0.25 ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. BW Sidley #5
 - b. Volume added 2.75 ft³
- 9. Well casing:
 - Flush threaded PVC schedule 40 23
 - Flush threaded PVC schedule 80 24
 - Other
- 10. Screen material: PVC
 - a. Screen type:
 - Factory cut 11
 - Continuous slot 01
 - Other
 - b. Manufacturer MOOREX
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack):
 - None 14
 - Other

- E. Bentonite seal, top 622.46 ft. MSL or 3.5 ft. 0.83
- F. Fine sand, top 619.79 ft. MSL or 3.5 ft.
- G. Filter pack, top 619.29 ft. MSL or 4.0 ft.
- H. Screen joint, top 618.79 ft. MSL or 4.5 ft.
- I. Well bottom 608.79 ft. MSL or 14.5 ft.
- J. Filter pack, bottom 608.79 ft. MSL or 14.5 ft.
- K. Borehole, bottom 608.29 ft. MSL or 15.0 ft.
- L. Borehole, diameter 8.25 in.
- M. O.D. well casing 2.03 in. 2.38
- N. I.D. well casing 2.38 in. 2.01

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Handwritten Signature] Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Arctic Laundry and Cleaners	County Name Kenosha	Well Name mw-1
Facility License, Permit or Monitoring Number	County Code 30	Wis. Unique Well Number VW581
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 118 min.
4. Depth of well (from top of well casing) 14.5 ft.
5. Inside diameter of well 2.03 in.
6. Volume of water in filter pack and well casing 5.9 gal.
7. Volume of water removed from well 21.5 gal.
8. Volume of water added (if any) --- gal.
9. Source of water added ---
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>8.10</u> ft.	<u>9.55</u> ft.
Date	b. <u>07/07/2017</u> m m d d y y y y	<u>02/07/2017</u> m m d d y y y y
Time	c. <u>9:07</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:05</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.5</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>very silty, dark gray</u>	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) <u>silty, dark gray/cloudy</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids --- mg/l --- mg/l

15. COD --- mg/l --- mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Jaclyn Last Name: DeBruyne

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:
bailed ~4g, well went dry
bailed ~2g, well went dry, does not recharge quick

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Boy Last Name: Baietto

Facility/Firm: _____

Street: 1850 19th Avenue

City/State/Zip: Kenosha, WI 53140

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Jaclyn DeBruyne

Print Name: Jaclyn DeBruyne

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Arctic Laundry and Cleaners	County Name Kenosha	Well Name MW-2
Facility License, Permit or Monitoring Number	County Code 30	Wis. Unique Well Number VW582
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well _____ 18 min.

4. Depth of well (from top of well casing) _____ 14.5 ft.

5. Inside diameter of well _____ 2.03 in.

6. Volume of water in filter pack and well casing _____ 4.6 gal.

7. Volume of water removed from well _____ 6.0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.50 ft.	12.20 ft.
Date	b. 02/07/2017 m m d d y y y y	02/07/2017 m m d d y y y y
Time	c. 8:23 <input checked="" type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	8:51 <input checked="" type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.5 inches	.5 inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) Very silty	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) Very silty
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Jacklyn	Last Name: DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718		

17. Additional comments on development:
bailed ~ 4g, well went dry - let recharge a bit
purged ~ 3/4g, well went dry, not recharging quick
purged ~ 1g, well went dry

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Boy Last Name: Baietto

Facility/Firm: _____

Street: 1850 19th Avenue

City/State/Zip: Kenosha, WI 53140

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Jacklyn DeBruyne

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Arctic Laundry and Cleaners	County Name Kenosha	Well Name mw-3
Facility License, Permit or Monitoring Number	County Code 30	Wis. Unique Well Number VW 583
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other

3. Time spent developing well 80 min.

4. Depth of well (from top of well casing) 14.5 ft.

5. Inside diameter of well 2.03 in.

6. Volume of water in filter pack and well casing 6.4 gal.

7. Volume of water removed from well 6.5 gal.

8. Volume of water added (if any) --- gal.

9. Source of water added ---

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

bailed 3.5 gal well went dry
bailed 1 gal well went dry
Very slow recharge

11. Depth to Water Before Development After Development

(from top of well casing) a. 7.54 ft. 10.40 ft.

Date b. 02/07/2017 02/07/2017
m m d d y y y y m m d d y y y y

Time c. 9:45 a.m. p.m. 11:05 a.m. p.m.

12. Sediment in well bottom 0.65 inches 0.65 inches

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) turbid, Turbid, brown
brown color, color
not as
silty

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids --- mg/l --- mg/l

15. COD --- mg/l --- mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Jaelyn Last Name: DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Boy Last Name: Baietto

Facility/Firm: _____

Street: 1850 19th Avenue

City/State/Zip: Kenosha, WI 53140

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Jaelyn DeBruyne

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

ATTACHMENT B

Disposal Documentation

Madison Metropolitan Sewerage District

Firm: SCS Engineers
Driver: BT2 BT2
Truck: (c) JG 7813
Comments: monitoring well development water

Ticket No: 210869
Date/Time: 2/8/2017 11:09:57AM
Total Cost: \$0.12

<u>Type</u>	<u>Volume</u>
Grease Trap	0
Holding Tank	0
LUST	30
Portable Toilet	0
Septic Tank	0
SettlingCatchBasin	0

ATTACHMENT C

Soil and Groundwater Laboratory Reports

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: 500-123596-1

Client Project/Site: Arctic Laundry & Cleaners - 25216186

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Robert Langdon



Authorized for release by:

2/16/2017 1:57:53 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

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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: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Job ID: 500-123596-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-123596-1

Comments

No additional comments.

Receipt

The samples were received on 2/8/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8° C.

Receipt Exceptions

Received all 3 vials for sample 18 with larger than pea size bubbles. Received 1 vial broken for sample 21.

GC/MS VOA

Method(s) 5035: methanol vial has < 8 grams of sample in 10 ml of methanol. GP-7 (0-2') (500-123596-1), GP-7 (5-7.5') (500-123596-2), GP-8 (2.5-5') (500-123596-3), GP-8 (5-7.5') (500-123596-4), GP-9 (2.5-5') (500-123596-5), GP-9 (5-7.5') (500-123596-6), GP-10 (2.5-5') (500-123596-7), GP-10 (5-7.5') (500-123596-8), GP-11 (0-2.5') (500-123596-9), GP-11 (5-7.5') (500-123596-10), MW-1 (2.5-5') (500-123596-11), MW-1 (5-7.5') (500-123596-12), MW-2 (2.5-5') (500-123596-13), MW-2 (5-7.5') (500-123596-14), MW-3 (0-2.5') (500-123596-15) and MW-3 (5-7.5') (500-123596-16)

Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: GP-7 (500-123596-18), GP-8 (500-123596-19), GP-9 (500-123596-20), GP-10 (500-123596-21) and GP-11 (500-123596-22).

Method(s) 8260B: The extraction LCS associated with preparation batch 371336 had analyte recovery for Dichlorodifluoromethane outside control limits. The instrument LCS associated with analytical batch 371372 had all analytes within control limits; therefore re-analysis was not performed. The data have been reported and qualified. GP-7 (0-2') (500-123596-1), GP-7 (5-7.5') (500-123596-2), GP-8 (2.5-5') (500-123596-3), GP-8 (5-7.5') (500-123596-4), GP-9 (2.5-5') (500-123596-5), GP-9 (5-7.5') (500-123596-6), GP-10 (2.5-5') (500-123596-7), GP-10 (5-7.5') (500-123596-8), GP-11 (0-2.5') (500-123596-9), GP-11 (5-7.5') (500-123596-10), MW-1 (2.5-5') (500-123596-11), MW-1 (5-7.5') (500-123596-12), MW-2 (2.5-5') (500-123596-13), MW-2 (5-7.5') (500-123596-14) and MW-3 (0-2.5') (500-123596-15)

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.

Detection Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (0-2')

Lab Sample ID: 500-123596-1

No Detections.

Client Sample ID: GP-7 (5-7.5')

Lab Sample ID: 500-123596-2

No Detections.

Client Sample ID: GP-8 (2.5-5')

Lab Sample ID: 500-123596-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	170		100	39	ug/Kg	50	☒	8260B	Total/NA

Client Sample ID: GP-8 (5-7.5')

Lab Sample ID: 500-123596-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1100		120	43	ug/Kg	50	☒	8260B	Total/NA

Client Sample ID: GP-9 (2.5-5')

Lab Sample ID: 500-123596-5

No Detections.

Client Sample ID: GP-9 (5-7.5')

Lab Sample ID: 500-123596-6

No Detections.

Client Sample ID: GP-10 (2.5-5')

Lab Sample ID: 500-123596-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	850		89	33	ug/Kg	50	☒	8260B	Total/NA

Client Sample ID: GP-10 (5-7.5')

Lab Sample ID: 500-123596-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3200		99	37	ug/Kg	50	☒	8260B	Total/NA

Client Sample ID: GP-11 (0-2.5')

Lab Sample ID: 500-123596-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	15000		91	34	ug/Kg	50	☒	8260B	Total/NA

Client Sample ID: GP-11 (5-7.5')

Lab Sample ID: 500-123596-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	17000		84	31	ug/Kg	50	☒	8260B	Total/NA

Client Sample ID: MW-1 (2.5-5')

Lab Sample ID: 500-123596-11

No Detections.

Client Sample ID: MW-1 (5-7.5')

Lab Sample ID: 500-123596-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (2.5-5')

Lab Sample ID: 500-123596-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	510		92	34	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		100	37	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3200		360	130	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3000		88	32	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-123596-17

No Detections.

Client Sample ID: GP-7

Lab Sample ID: 500-123596-18

No Detections.

Client Sample ID: GP-8

Lab Sample ID: 500-123596-19

No Detections.

Client Sample ID: GP-9

Lab Sample ID: 500-123596-20

No Detections.

Client Sample ID: GP-10

Lab Sample ID: 500-123596-21

No Detections.

Client Sample ID: GP-11

Lab Sample ID: 500-123596-22

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-123596-1	GP-7 (0-2')	Solid	02/06/17 08:50	02/08/17 10:30
500-123596-2	GP-7 (5-7.5')	Solid	02/06/17 08:55	02/08/17 10:30
500-123596-3	GP-8 (2.5-5')	Solid	02/06/17 09:40	02/08/17 10:30
500-123596-4	GP-8 (5-7.5')	Solid	02/06/17 09:45	02/08/17 10:30
500-123596-5	GP-9 (2.5-5')	Solid	02/06/17 10:35	02/08/17 10:30
500-123596-6	GP-9 (5-7.5')	Solid	02/06/17 10:40	02/08/17 10:30
500-123596-7	GP-10 (2.5-5')	Solid	02/06/17 11:05	02/08/17 10:30
500-123596-8	GP-10 (5-7.5')	Solid	02/06/17 11:10	02/08/17 10:30
500-123596-9	GP-11 (0-2.5')	Solid	02/06/17 11:25	02/08/17 10:30
500-123596-10	GP-11 (5-7.5')	Solid	02/06/17 11:30	02/08/17 10:30
500-123596-11	MW-1 (2.5-5')	Solid	02/06/17 10:00	02/08/17 10:30
500-123596-12	MW-1 (5-7.5')	Solid	02/06/17 10:05	02/08/17 10:30
500-123596-13	MW-2 (2.5-5')	Solid	02/06/17 11:55	02/08/17 10:30
500-123596-14	MW-2 (5-7.5')	Solid	02/06/17 12:00	02/08/17 10:30
500-123596-15	MW-3 (0-2.5')	Solid	02/06/17 13:50	02/08/17 10:30
500-123596-16	MW-3 (5-7.5')	Solid	02/06/17 13:55	02/08/17 10:30
500-123596-17	Trip Blank	Water	02/06/17 00:00	02/08/17 10:30
500-123596-18	GP-7	Water	02/06/17 10:10	02/08/17 10:30
500-123596-19	GP-8	Water	02/06/17 10:15	02/08/17 10:30
500-123596-20	GP-9	Water	02/06/17 12:55	02/08/17 10:30
500-123596-21	GP-10	Water	02/06/17 12:40	02/08/17 10:30
500-123596-22	GP-11	Water	02/06/17 12:45	02/08/17 10:30

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (0-2')

Lab Sample ID: 500-123596-1

Date Collected: 02/06/17 08:50

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		30	18	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromobenzene	<43		120	43	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromochloromethane	<52		120	52	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromodichloromethane	<45		120	45	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromoform	<59		120	59	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromomethane	<96		240	96	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Carbon tetrachloride	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chlorobenzene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chloroethane	<61		120	61	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chloroform	<45		240	45	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chloromethane	<39		120	39	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
2-Chlorotoluene	<38		120	38	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
4-Chlorotoluene	<42		120	42	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
cis-1,2-Dichloroethene	<49		120	49	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
cis-1,3-Dichloropropene	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Dibromochloromethane	<59		120	59	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dibromo-3-Chloropropane	<240		610	240	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dibromoethane	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Dibromomethane	<33		120	33	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dichlorobenzene	<40		120	40	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,3-Dichlorobenzene	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,4-Dichlorobenzene	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Dichlorodifluoromethane	<82 *		240	82	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1-Dichloroethane	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dichloroethane	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1-Dichloroethene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dichloropropane	<52		120	52	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,3-Dichloropropane	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
2,2-Dichloropropane	<54		120	54	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1-Dichloropropene	<36		120	36	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Ethylbenzene	<22		30	22	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Hexachlorobutadiene	<54		120	54	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Isopropylbenzene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Isopropyl ether	<33		120	33	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Methylene Chloride	<200		610	200	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Methyl tert-butyl ether	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Naphthalene	<40		120	40	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
n-Butylbenzene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
N-Propylbenzene	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
p-Isopropyltoluene	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
sec-Butylbenzene	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Styrene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
tert-Butylbenzene	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,1,2-Tetrachloroethane	<56		120	56	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,2,2-Tetrachloroethane	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Tetrachloroethene	<45		120	45	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Toluene	<18		30	18	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
trans-1,2-Dichloroethene	<42		120	42	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
trans-1,3-Dichloropropene	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (0-2')

Date Collected: 02/06/17 08:50

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1

Matrix: Solid

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<56		120	56	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2,4-Trichlorobenzene	<41		120	41	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,1-Trichloroethane	<46		120	46	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,2-Trichloroethane	<43		120	43	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Trichloroethene	<20		61	20	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Trichlorofluoromethane	<52		120	52	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2,3-Trichloropropane	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2,4-Trimethylbenzene	<43		120	43	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,3,5-Trimethylbenzene	<46		120	46	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Vinyl chloride	<32		61	32	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Xylenes, Total	<27		61	27	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120				02/06/17 08:50	02/09/17 12:40	50
Dibromofluoromethane	105		70 - 120				02/06/17 08:50	02/09/17 12:40	50
1,2-Dichloroethane-d4 (Surr)	104		71 - 127				02/06/17 08:50	02/09/17 12:40	50
Toluene-d8 (Surr)	96		75 - 120				02/06/17 08:50	02/09/17 12:40	50

Client Sample ID: GP-7 (5-7.5')

Date Collected: 02/06/17 08:55

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2

Matrix: Solid

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromobenzene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromochloromethane	<39		92	39	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromoform	<44		92	44	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chlorobenzene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chloroethane	<46		92	46	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chloromethane	<29		92	29	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
cis-1,2-Dichloroethene	<37		92	37	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dibromoethane	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Dibromomethane	<25		92	25	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,4-Dichlorobenzene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Dichlorodifluoromethane	<62 *		180	62	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (5-7.5')

Lab Sample ID: 500-123596-2

Date Collected: 02/06/17 08:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Isopropyl ether	<25		92	25	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Naphthalene	<31		92	31	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
sec-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Styrene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
tert-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,1,2-Tetrachloroethane	<42		92	42	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,2,2-Tetrachloroethane	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Tetrachloroethene	<34		92	34	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,4-Trichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,3-Trichloropropane	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120	02/06/17 08:55	02/09/17 13:08	50
Dibromofluoromethane	102		70 - 120	02/06/17 08:55	02/09/17 13:08	50
1,2-Dichloroethane-d4 (Surr)	100		71 - 127	02/06/17 08:55	02/09/17 13:08	50
Toluene-d8 (Surr)	97		75 - 120	02/06/17 08:55	02/09/17 13:08	50

Client Sample ID: GP-8 (2.5-5')

Lab Sample ID: 500-123596-3

Date Collected: 02/06/17 09:40

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		26	15	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromobenzene	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromochloromethane	<45		100	45	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-8 (2.5-5')

Lab Sample ID: 500-123596-3

Date Collected: 02/06/17 09:40

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<39		100	39	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromoform	<51		100	51	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromomethane	<83		210	83	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Carbon tetrachloride	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chlorobenzene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chloroethane	<53		100	53	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chloroform	<39		210	39	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chloromethane	<34		100	34	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
2-Chlorotoluene	<33		100	33	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
4-Chlorotoluene	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
cis-1,2-Dichloroethene	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
cis-1,3-Dichloropropene	<44		100	44	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Dibromochloromethane	<51		100	51	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dibromo-3-Chloropropane	<210		520	210	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dibromoethane	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Dibromomethane	<28		100	28	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dichlorobenzene	<35		100	35	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,3-Dichlorobenzene	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,4-Dichlorobenzene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Dichlorodifluoromethane	<71 *		210	71	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1-Dichloroethane	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dichloroethane	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1-Dichloroethene	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dichloropropane	<45		100	45	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,3-Dichloropropane	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
2,2-Dichloropropane	<47		100	47	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1-Dichloropropene	<31		100	31	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Ethylbenzene	<19		26	19	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Hexachlorobutadiene	<47		100	47	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Isopropylbenzene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Isopropyl ether	<29		100	29	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Methylene Chloride	<170		520	170	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Methyl tert-butyl ether	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Naphthalene	<35		100	35	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
n-Butylbenzene	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
N-Propylbenzene	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
p-Isopropyltoluene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
sec-Butylbenzene	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Styrene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
tert-Butylbenzene	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1,1,2-Tetrachloroethane	<48		100	48	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1,1,2,2-Tetrachloroethane	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Tetrachloroethene	170		100	39	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Toluene	<15		26	15	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
trans-1,2-Dichloroethene	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
trans-1,3-Dichloropropene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,3-Trichlorobenzene	<48		100	48	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,4-Trichlorobenzene	<36		100	36	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1,1-Trichloroethane	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-8 (2.5-5')

Date Collected: 02/06/17 09:40

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3

Matrix: Solid

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Trichloroethene	<17		52	17	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Trichlorofluoromethane	<45		100	45	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,3-Trichloropropane	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,4-Trimethylbenzene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,3,5-Trimethylbenzene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Vinyl chloride	<27		52	27	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Xylenes, Total	<23		52	23	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		71 - 120				02/06/17 09:40	02/09/17 13:36	50
Dibromofluoromethane	104		70 - 120				02/06/17 09:40	02/09/17 13:36	50
1,2-Dichloroethane-d4 (Surr)	103		71 - 127				02/06/17 09:40	02/09/17 13:36	50
Toluene-d8 (Surr)	96		75 - 120				02/06/17 09:40	02/09/17 13:36	50

Client Sample ID: GP-8 (5-7.5')

Date Collected: 02/06/17 09:45

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-4

Matrix: Solid

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromobenzene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromochloromethane	<50		120	50	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromodichloromethane	<44		120	44	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromoform	<57		120	57	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromomethane	<93		230	93	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Carbon tetrachloride	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chlorobenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chloroethane	<59		120	59	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chloroform	<43		230	43	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chloromethane	<38		120	38	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
2-Chlorotoluene	<37		120	37	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
4-Chlorotoluene	<41		120	41	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
cis-1,2-Dichloroethene	<48		120	48	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
cis-1,3-Dichloropropene	<49		120	49	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Dibromochloromethane	<57		120	57	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dibromo-3-Chloropropane	<230		590	230	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dibromoethane	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Dibromomethane	<32		120	32	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichlorobenzene	<39		120	39	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,3-Dichlorobenzene	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,4-Dichlorobenzene	<43		120	43	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Dichlorodifluoromethane	<79 *		230	79	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1-Dichloroethane	<48		120	48	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichloroethane	<46		120	46	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1-Dichloroethene	<46		120	46	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichloropropane	<50		120	50	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,3-Dichloropropane	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
2,2-Dichloropropane	<52		120	52	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-8 (5-7.5')

Lab Sample ID: 500-123596-4

Date Collected: 02/06/17 09:45

Matrix: Solid

Date Received: 02/08/17 10:30

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-Dichloropropene	<35		120	35	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Ethylbenzene	<21		29	21	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Hexachlorobutadiene	<52		120	52	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Isopropylbenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Isopropyl ether	<32		120	32	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Methylene Chloride	<190		590	190	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Methyl tert-butyl ether	<46		120	46	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Naphthalene	<39		120	39	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
n-Butylbenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
N-Propylbenzene	<49		120	49	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
p-Isopropyltoluene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
sec-Butylbenzene	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Styrene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
tert-Butylbenzene	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,1,2-Tetrachloroethane	<54		120	54	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,2,2-Tetrachloroethane	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Tetrachloroethene	1100		120	43	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Toluene	<17		29	17	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
trans-1,2-Dichloroethene	<41		120	41	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
trans-1,3-Dichloropropene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,3-Trichlorobenzene	<54		120	54	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,4-Trichlorobenzene	<40		120	40	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,1-Trichloroethane	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,2-Trichloroethane	<41		120	41	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Trichloroethene	<19		59	19	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Trichlorofluoromethane	<50		120	50	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,3-Trichloropropane	<49		120	49	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,4-Trimethylbenzene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,3,5-Trimethylbenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Vinyl chloride	<31		59	31	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Xylenes, Total	<26		59	26	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		71 - 120	02/06/17 09:45	02/09/17 14:03	50
Dibromofluoromethane	104		70 - 120	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichloroethane-d4 (Surr)	102		71 - 127	02/06/17 09:45	02/09/17 14:03	50
Toluene-d8 (Surr)	97		75 - 120	02/06/17 09:45	02/09/17 14:03	50

Client Sample ID: GP-9 (2.5-5')

Lab Sample ID: 500-123596-5

Date Collected: 02/06/17 10:35

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		25	15	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromobenzene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromochloromethane	<43		100	43	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromodichloromethane	<37		100	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromoform	<49		100	49	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromomethane	<80		200	80	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-9 (2.5-5')

Lab Sample ID: 500-123596-5

Date Collected: 02/06/17 10:35

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chlorobenzene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chloroethane	<51		100	51	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chloroform	<37		200	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chloromethane	<32		100	32	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
2-Chlorotoluene	<32		100	32	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
4-Chlorotoluene	<35		100	35	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
cis-1,2-Dichloroethene	<41		100	41	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
cis-1,3-Dichloropropene	<42		100	42	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Dibromochloromethane	<49		100	49	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dibromo-3-Chloropropane	<200		500	200	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dibromoethane	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Dibromomethane	<27		100	27	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,3-Dichlorobenzene	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,4-Dichlorobenzene	<37		100	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Dichlorodifluoromethane	<68 *		200	68	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1-Dichloroethane	<41		100	41	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichloroethane	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1-Dichloroethene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichloropropane	<43		100	43	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,3-Dichloropropane	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
2,2-Dichloropropane	<45		100	45	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1-Dichloropropene	<30		100	30	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Ethylbenzene	<18		25	18	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Hexachlorobutadiene	<45		100	45	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Isopropylbenzene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Isopropyl ether	<28		100	28	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Methylene Chloride	<160		500	160	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Methyl tert-butyl ether	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Naphthalene	<34		100	34	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
n-Butylbenzene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
N-Propylbenzene	<42		100	42	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
p-Isopropyltoluene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
sec-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Styrene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
tert-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,1,2-Tetrachloroethane	<46		100	46	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,2,2-Tetrachloroethane	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Tetrachloroethene	<37		100	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Toluene	<15		25	15	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
trans-1,2-Dichloroethene	<35		100	35	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
trans-1,3-Dichloropropene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2,3-Trichlorobenzene	<46		100	46	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2,4-Trichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,1-Trichloroethane	<38		100	38	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,2-Trichloroethane	<35		100	35	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Trichloroethene	<16		50	16	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Trichlorofluoromethane	<43		100	43	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-9 (2.5-5')

Date Collected: 02/06/17 10:35

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-5

Matrix: Solid

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<42		100	42	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2,4-Trimethylbenzene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,3,5-Trimethylbenzene	<38		100	38	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Vinyl chloride	<26		50	26	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Xylenes, Total	<22		50	22	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		71 - 120	02/06/17 10:35	02/09/17 14:31	50
Dibromofluoromethane	105		70 - 120	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichloroethane-d4 (Surr)	103		71 - 127	02/06/17 10:35	02/09/17 14:31	50
Toluene-d8 (Surr)	96		75 - 120	02/06/17 10:35	02/09/17 14:31	50

Client Sample ID: GP-9 (5-7.5')

Date Collected: 02/06/17 10:40

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-6

Matrix: Solid

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromobenzene	<41		120	41	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromochloromethane	<49		120	49	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromodichloromethane	<43		120	43	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromoform	<56		120	56	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromomethane	<92		230	92	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Carbon tetrachloride	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chlorobenzene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chloroethane	<58		120	58	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chloroform	<43		230	43	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chloromethane	<37		120	37	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
2-Chlorotoluene	<36		120	36	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
4-Chlorotoluene	<40		120	40	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
cis-1,2-Dichloroethene	<47		120	47	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
cis-1,3-Dichloropropene	<48		120	48	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Dibromochloromethane	<56		120	56	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dibromo-3-Chloropropane	<230		580	230	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dibromoethane	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Dibromomethane	<31		120	31	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dichlorobenzene	<39		120	39	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,3-Dichlorobenzene	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,4-Dichlorobenzene	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Dichlorodifluoromethane	<78 *		230	78	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1-Dichloroethane	<47		120	47	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dichloroethane	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1-Dichloroethene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dichloropropane	<49		120	49	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,3-Dichloropropane	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
2,2-Dichloropropane	<51		120	51	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1-Dichloropropene	<34		120	34	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Ethylbenzene	<21		29	21	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Hexachlorobutadiene	<51		120	51	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-9 (5-7.5')

Date Collected: 02/06/17 10:40

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-6

Matrix: Solid

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Isopropyl ether	<32		120	32	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Methylene Chloride	<190		580	190	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Methyl tert-butyl ether	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Naphthalene	<39		120	39	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
n-Butylbenzene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
N-Propylbenzene	<48		120	48	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
p-Isopropyltoluene	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
sec-Butylbenzene	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Styrene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
tert-Butylbenzene	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,1,2-Tetrachloroethane	<53		120	53	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,2,2-Tetrachloroethane	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Tetrachloroethene	<43		120	43	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Toluene	<17		29	17	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
trans-1,2-Dichloroethene	<40		120	40	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
trans-1,3-Dichloropropene	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,3-Trichlorobenzene	<53		120	53	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,4-Trichlorobenzene	<39		120	39	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,1-Trichloroethane	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,2-Trichloroethane	<41		120	41	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Trichloroethene	<19		58	19	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Trichlorofluoromethane	<49		120	49	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,3-Trichloropropane	<48		120	48	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,4-Trimethylbenzene	<41		120	41	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,3,5-Trimethylbenzene	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Vinyl chloride	<30		58	30	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Xylenes, Total	<25		58	25	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		71 - 120				02/06/17 10:40	02/09/17 14:59	50
Dibromofluoromethane	104		70 - 120				02/06/17 10:40	02/09/17 14:59	50
1,2-Dichloroethane-d4 (Surr)	105		71 - 127				02/06/17 10:40	02/09/17 14:59	50
Toluene-d8 (Surr)	96		75 - 120				02/06/17 10:40	02/09/17 14:59	50

Client Sample ID: GP-10 (2.5-5')

Date Collected: 02/06/17 11:05

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-7

Matrix: Solid

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromobenzene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromochloromethane	<38		89	38	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromodichloromethane	<33		89	33	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromoform	<43		89	43	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromomethane	<71		180	71	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Carbon tetrachloride	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Chlorobenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Chloroethane	<45		89	45	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10 (2.5-5')

Lab Sample ID: 500-123596-7

Date Collected: 02/06/17 11:05

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<33		180	33	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Chloromethane	<28		89	28	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
2-Chlorotoluene	<28		89	28	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
4-Chlorotoluene	<31		89	31	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
cis-1,2-Dichloroethene	<36		89	36	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
cis-1,3-Dichloropropene	<37		89	37	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Dibromochloromethane	<43		89	43	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dibromo-3-Chloropropane	<180		440	180	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dibromoethane	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Dibromomethane	<24		89	24	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dichlorobenzene	<30		89	30	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,3-Dichlorobenzene	<36		89	36	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,4-Dichlorobenzene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Dichlorodifluoromethane	<60 *		180	60	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1-Dichloroethane	<36		89	36	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dichloroethane	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1-Dichloroethene	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dichloropropane	<38		89	38	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,3-Dichloropropane	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
2,2-Dichloropropane	<39		89	39	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1-Dichloropropene	<26		89	26	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Ethylbenzene	<16		22	16	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Hexachlorobutadiene	<40		89	40	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Isopropylbenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Isopropyl ether	<25		89	25	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Methylene Chloride	<140		440	140	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Methyl tert-butyl ether	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Naphthalene	<30		89	30	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
n-Butylbenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
N-Propylbenzene	<37		89	37	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
p-Isopropyltoluene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
sec-Butylbenzene	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Styrene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
tert-Butylbenzene	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,1,2-Tetrachloroethane	<41		89	41	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,2,2-Tetrachloroethane	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Tetrachloroethene	850		89	33	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Toluene	<13		22	13	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
trans-1,2-Dichloroethene	<31		89	31	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
trans-1,3-Dichloropropene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,3-Trichlorobenzene	<41		89	41	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,4-Trichlorobenzene	<30		89	30	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,1-Trichloroethane	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,2-Trichloroethane	<31		89	31	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Trichloroethene	<15		44	15	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Trichlorofluoromethane	<38		89	38	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,3-Trichloropropane	<37		89	37	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,4-Trimethylbenzene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,3,5-Trimethylbenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10 (2.5-5')

Date Collected: 02/06/17 11:05

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-7

Matrix: Solid

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<23		44	23	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Xylenes, Total	<20		44	20	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		71 - 120				02/06/17 11:05	02/09/17 15:27	50
Dibromofluoromethane	103		70 - 120				02/06/17 11:05	02/09/17 15:27	50
1,2-Dichloroethane-d4 (Surr)	102		71 - 127				02/06/17 11:05	02/09/17 15:27	50
Toluene-d8 (Surr)	96		75 - 120				02/06/17 11:05	02/09/17 15:27	50

Client Sample ID: GP-10 (5-7.5')

Date Collected: 02/06/17 11:10

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-8

Matrix: Solid

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<14		25	14	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromobenzene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromochloromethane	<42		99	42	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromodichloromethane	<37		99	37	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromoform	<48		99	48	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromomethane	<79		200	79	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Carbon tetrachloride	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chlorobenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chloroethane	<50		99	50	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chloroform	<37		200	37	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chloromethane	<32		99	32	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
2-Chlorotoluene	<31		99	31	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
4-Chlorotoluene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
cis-1,2-Dichloroethene	<40		99	40	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
cis-1,3-Dichloropropene	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Dibromochloromethane	<48		99	48	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dibromo-3-Chloropropane	<200		490	200	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dibromoethane	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Dibromomethane	<27		99	27	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichlorobenzene	<33		99	33	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,3-Dichlorobenzene	<40		99	40	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,4-Dichlorobenzene	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Dichlorodifluoromethane	<67 *		200	67	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1-Dichloroethane	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichloroethane	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1-Dichloroethene	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichloropropane	<42		99	42	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,3-Dichloropropane	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
2,2-Dichloropropane	<44		99	44	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1-Dichloropropene	<29		99	29	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Ethylbenzene	<18		25	18	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Hexachlorobutadiene	<44		99	44	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Isopropylbenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Isopropyl ether	<27		99	27	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Methylene Chloride	<160		490	160	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10 (5-7.5')

Lab Sample ID: 500-123596-8

Date Collected: 02/06/17 11:10

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Naphthalene	<33		99	33	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
n-Butylbenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
N-Propylbenzene	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
p-Isopropyltoluene	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
sec-Butylbenzene	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Styrene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
tert-Butylbenzene	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,1,2-Tetrachloroethane	<46		99	46	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,2,2-Tetrachloroethane	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Tetrachloroethene	3200		99	37	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Toluene	<15		25	15	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
trans-1,2-Dichloroethene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
trans-1,3-Dichloropropene	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,3-Trichlorobenzene	<45		99	45	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,4-Trichlorobenzene	<34		99	34	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,1-Trichloroethane	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,2-Trichloroethane	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Trichloroethene	<16		49	16	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Trichlorofluoromethane	<42		99	42	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,3-Trichloropropane	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,4-Trimethylbenzene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,3,5-Trimethylbenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Vinyl chloride	<26		49	26	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Xylenes, Total	<22		49	22	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		71 - 120	02/06/17 11:10	02/09/17 15:55	50
Dibromofluoromethane	103		70 - 120	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichloroethane-d4 (Surr)	103		71 - 127	02/06/17 11:10	02/09/17 15:55	50
Toluene-d8 (Surr)	96		75 - 120	02/06/17 11:10	02/09/17 15:55	50

Client Sample ID: GP-11 (0-2.5')

Lab Sample ID: 500-123596-9

Date Collected: 02/06/17 11:25

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromobenzene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromochloromethane	<39		91	39	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromodichloromethane	<34		91	34	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromoform	<44		91	44	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Carbon tetrachloride	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chlorobenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chloroethane	<46		91	46	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chloromethane	<29		91	29	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
2-Chlorotoluene	<29		91	29	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11 (0-2.5')

Lab Sample ID: 500-123596-9

Date Collected: 02/06/17 11:25

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<32		91	32	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
cis-1,2-Dichloroethene	<37		91	37	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
cis-1,3-Dichloropropene	<38		91	38	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Dibromochloromethane	<45		91	45	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dibromoethane	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Dibromomethane	<25		91	25	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichlorobenzene	<31		91	31	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,3-Dichlorobenzene	<37		91	37	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,4-Dichlorobenzene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Dichlorodifluoromethane	<62 *		180	62	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1-Dichloroethane	<37		91	37	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichloroethane	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1-Dichloroethene	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichloropropane	<39		91	39	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,3-Dichloropropane	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
2,2-Dichloropropane	<41		91	41	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1-Dichloropropene	<27		91	27	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Hexachlorobutadiene	<41		91	41	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Isopropylbenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Isopropyl ether	<25		91	25	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Methyl tert-butyl ether	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Naphthalene	<31		91	31	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
n-Butylbenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
N-Propylbenzene	<38		91	38	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
p-Isopropyltoluene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
sec-Butylbenzene	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Styrene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
tert-Butylbenzene	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,1,2-Tetrachloroethane	<42		91	42	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,2,2-Tetrachloroethane	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Tetrachloroethene	15000		91	34	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
trans-1,2-Dichloroethene	<32		91	32	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
trans-1,3-Dichloropropene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,3-Trichlorobenzene	<42		91	42	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,4-Trichlorobenzene	<31		91	31	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,1-Trichloroethane	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,2-Trichloroethane	<32		91	32	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Trichlorofluoromethane	<39		91	39	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,3-Trichloropropane	<38		91	38	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,4-Trimethylbenzene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,3,5-Trimethylbenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11 (0-2.5')

Date Collected: 02/06/17 11:25

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-9

Matrix: Solid

Percent Solids: 86.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120	02/06/17 11:25	02/09/17 16:23	50
Dibromofluoromethane	102		70 - 120	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichloroethane-d4 (Surr)	102		71 - 127	02/06/17 11:25	02/09/17 16:23	50
Toluene-d8 (Surr)	96		75 - 120	02/06/17 11:25	02/09/17 16:23	50

Client Sample ID: GP-11 (5-7.5')

Date Collected: 02/06/17 11:30

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-10

Matrix: Solid

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		21	12	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromobenzene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromochloromethane	<36		84	36	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromodichloromethane	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromoform	<41		84	41	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromomethane	<67		170	67	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Carbon tetrachloride	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chlorobenzene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chloroethane	<43		84	43	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chloroform	<31		170	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chloromethane	<27		84	27	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
2-Chlorotoluene	<27		84	27	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
4-Chlorotoluene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
cis-1,2-Dichloroethene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
cis-1,3-Dichloropropene	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Dibromochloromethane	<41		84	41	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dibromo-3-Chloropropane	<170		420	170	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dibromoethane	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Dibromomethane	<23		84	23	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichlorobenzene	<28		84	28	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,3-Dichlorobenzene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,4-Dichlorobenzene	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Dichlorodifluoromethane	<57 *		170	57	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1-Dichloroethane	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichloroethane	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1-Dichloroethene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichloropropane	<36		84	36	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,3-Dichloropropane	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
2,2-Dichloropropane	<37		84	37	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1-Dichloropropene	<25		84	25	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Ethylbenzene	<15		21	15	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Hexachlorobutadiene	<38		84	38	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Isopropylbenzene	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Isopropyl ether	<23		84	23	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Methylene Chloride	<140		420	140	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Methyl tert-butyl ether	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Naphthalene	<28		84	28	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
n-Butylbenzene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
N-Propylbenzene	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11 (5-7.5')

Lab Sample ID: 500-123596-10

Date Collected: 02/06/17 11:30

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
sec-Butylbenzene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Styrene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
tert-Butylbenzene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,1,2-Tetrachloroethane	<39		84	39	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,2,2-Tetrachloroethane	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Tetrachloroethene	17000		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Toluene	<12		21	12	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
trans-1,2-Dichloroethene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
trans-1,3-Dichloropropene	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,3-Trichlorobenzene	<39		84	39	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,4-Trichlorobenzene	<29		84	29	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,1-Trichloroethane	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,2-Trichloroethane	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Trichloroethene	<14		42	14	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Trichlorofluoromethane	<36		84	36	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,3-Trichloropropane	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,4-Trimethylbenzene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,3,5-Trimethylbenzene	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Vinyl chloride	<22		42	22	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Xylenes, Total	<19		42	19	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120	02/06/17 11:30	02/09/17 16:50	50
Dibromofluoromethane	103		70 - 120	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichloroethane-d4 (Surr)	102		71 - 127	02/06/17 11:30	02/09/17 16:50	50
Toluene-d8 (Surr)	97		75 - 120	02/06/17 11:30	02/09/17 16:50	50

Client Sample ID: MW-1 (2.5-5')

Lab Sample ID: 500-123596-11

Date Collected: 02/06/17 10:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromobenzene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromochloromethane	<39		92	39	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromoform	<44		92	44	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chlorobenzene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chloroethane	<46		92	46	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chloromethane	<29		92	29	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
cis-1,2-Dichloroethene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-1 (2.5-5')

Lab Sample ID: 500-123596-11

Date Collected: 02/06/17 10:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dibromoethane	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Dibromomethane	<25		92	25	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,4-Dichlorobenzene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Dichlorodifluoromethane	<62 *		180	62	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Isopropyl ether	<25		92	25	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Naphthalene	<31		92	31	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
sec-Butylbenzene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Styrene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
tert-Butylbenzene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,1,2-Tetrachloroethane	<42		92	42	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,2,2-Tetrachloroethane	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Tetrachloroethene	<34		92	34	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,4-Trichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,3-Trichloropropane	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		71 - 120	02/06/17 10:00	02/09/17 17:18	50
Dibromofluoromethane	104		70 - 120	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichloroethane-d4 (Surr)	102		71 - 127	02/06/17 10:00	02/09/17 17:18	50
Toluene-d8 (Surr)	97		75 - 120	02/06/17 10:00	02/09/17 17:18	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-1 (5-7.5')

Lab Sample ID: 500-123596-12

Date Collected: 02/06/17 10:05

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		41	24	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromobenzene	<58		160	58	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromochloromethane	<70		160	70	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromodichloromethane	<61		160	61	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromoform	<79		160	79	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromomethane	<130		330	130	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Carbon tetrachloride	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chlorobenzene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chloroethane	<82		160	82	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chloroform	<61		330	61	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chloromethane	<52		160	52	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
2-Chlorotoluene	<51		160	51	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
4-Chlorotoluene	<57		160	57	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
cis-1,2-Dichloroethene	<67		160	67	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
cis-1,3-Dichloropropene	<68		160	68	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Dibromochloromethane	<80		160	80	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dibromo-3-Chloropropane	<330		820	330	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dibromoethane	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Dibromomethane	<44		160	44	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dichlorobenzene	<55		160	55	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,3-Dichlorobenzene	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,4-Dichlorobenzene	<60		160	60	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Dichlorodifluoromethane	<110 *		330	110	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1-Dichloroethane	<67		160	67	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dichloroethane	<64		160	64	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1-Dichloroethene	<64		160	64	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dichloropropane	<70		160	70	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,3-Dichloropropane	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
2,2-Dichloropropane	<73		160	73	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1-Dichloropropene	<49		160	49	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Ethylbenzene	<30		41	30	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Hexachlorobutadiene	<73		160	73	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Isopropylbenzene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Isopropyl ether	<45		160	45	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Methylene Chloride	<270		820	270	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Methyl tert-butyl ether	<64		160	64	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Naphthalene	<55		160	55	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
n-Butylbenzene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
N-Propylbenzene	<68		160	68	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
p-Isopropyltoluene	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
sec-Butylbenzene	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Styrene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
tert-Butylbenzene	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,1,2-Tetrachloroethane	<76		160	76	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,2,2-Tetrachloroethane	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Tetrachloroethene	<61		160	61	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Toluene	<24		41	24	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
trans-1,2-Dichloroethene	<57		160	57	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
trans-1,3-Dichloropropene	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-1 (5-7.5')

Lab Sample ID: 500-123596-12

Date Collected: 02/06/17 10:05

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<75		160	75	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2,4-Trichlorobenzene	<56		160	56	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,1-Trichloroethane	<62		160	62	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,2-Trichloroethane	<58		160	58	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Trichloroethene	<27		82	27	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Trichlorofluoromethane	<70		160	70	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2,3-Trichloropropane	<68		160	68	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2,4-Trimethylbenzene	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,3,5-Trimethylbenzene	<62		160	62	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Vinyl chloride	<43		82	43	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Xylenes, Total	<36		82	36	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120				02/06/17 10:05	02/09/17 17:46	50
Dibromofluoromethane	103		70 - 120				02/06/17 10:05	02/09/17 17:46	50
1,2-Dichloroethane-d4 (Surr)	100		71 - 127				02/06/17 10:05	02/09/17 17:46	50
Toluene-d8 (Surr)	96		75 - 120				02/06/17 10:05	02/09/17 17:46	50

Client Sample ID: MW-2 (2.5-5')

Lab Sample ID: 500-123596-13

Date Collected: 02/06/17 11:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromobenzene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromochloromethane	<39		92	39	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromoform	<44		92	44	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chlorobenzene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chloroethane	<46		92	46	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chloromethane	<29		92	29	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
cis-1,2-Dichloroethene	<37		92	37	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dibromoethane	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Dibromomethane	<25		92	25	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,4-Dichlorobenzene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Dichlorodifluoromethane	<62 *		180	62	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (2.5-5')

Lab Sample ID: 500-123596-13

Date Collected: 02/06/17 11:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Isopropyl ether	<25		92	25	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Naphthalene	<31		92	31	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
sec-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Styrene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
tert-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,1,2-Tetrachloroethane	<42		92	42	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,2,2-Tetrachloroethane	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Tetrachloroethene	510		92	34	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,4-Trichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,3-Trichloropropane	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		71 - 120	02/06/17 11:55	02/09/17 18:14	50
Dibromofluoromethane	102		70 - 120	02/06/17 11:55	02/09/17 18:14	50
1,2-Dichloroethane-d4 (Surr)	100		71 - 127	02/06/17 11:55	02/09/17 18:14	50
Toluene-d8 (Surr)	98		75 - 120	02/06/17 11:55	02/09/17 18:14	50

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14

Date Collected: 02/06/17 12:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		25	15	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromobenzene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromochloromethane	<43		100	43	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14

Date Collected: 02/06/17 12:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<37		100	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromoform	<49		100	49	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromomethane	<80		200	80	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Carbon tetrachloride	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chlorobenzene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chloroethane	<51		100	51	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chloroform	<37		200	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chloromethane	<32		100	32	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
2-Chlorotoluene	<32		100	32	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
4-Chlorotoluene	<35		100	35	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
cis-1,2-Dichloroethene	<41		100	41	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
cis-1,3-Dichloropropene	<42		100	42	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Dibromochloromethane	<49		100	49	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dibromo-3-Chloropropane	<200		500	200	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dibromoethane	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Dibromomethane	<27		100	27	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,3-Dichlorobenzene	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,4-Dichlorobenzene	<37		100	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Dichlorodifluoromethane	<68 *		200	68	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1-Dichloroethane	<41		100	41	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dichloroethane	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1-Dichloroethene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dichloropropane	<43		100	43	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,3-Dichloropropane	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
2,2-Dichloropropane	<45		100	45	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1-Dichloropropene	<30		100	30	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Ethylbenzene	<18		25	18	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Hexachlorobutadiene	<45		100	45	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Isopropylbenzene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Isopropyl ether	<28		100	28	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Methylene Chloride	<160		500	160	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Methyl tert-butyl ether	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Naphthalene	<34		100	34	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
n-Butylbenzene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
N-Propylbenzene	<42		100	42	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
p-Isopropyltoluene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
sec-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Styrene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
tert-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1,1,2-Tetrachloroethane	<46		100	46	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1,2,2-Tetrachloroethane	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Tetrachloroethene	130		100	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Toluene	<15		25	15	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
trans-1,2-Dichloroethene	<35		100	35	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
trans-1,3-Dichloropropene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,3-Trichlorobenzene	<46		100	46	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,4-Trichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1,1-Trichloroethane	<38		100	38	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14

Date Collected: 02/06/17 12:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<35		100	35	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Trichloroethene	<16		50	16	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Trichlorofluoromethane	<43		100	43	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,3-Trichloropropane	<42		100	42	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,4-Trimethylbenzene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,3,5-Trimethylbenzene	<38		100	38	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Vinyl chloride	<26		50	26	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Xylenes, Total	<22		50	22	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		71 - 120				02/06/17 12:00	02/09/17 18:42	50
Dibromofluoromethane	101		70 - 120				02/06/17 12:00	02/09/17 18:42	50
1,2-Dichloroethane-d4 (Surr)	96		71 - 127				02/06/17 12:00	02/09/17 18:42	50
Toluene-d8 (Surr)	98		75 - 120				02/06/17 12:00	02/09/17 18:42	50

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15

Date Collected: 02/06/17 13:50

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<53		91	53	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromobenzene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromochloromethane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromodichloromethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromoform	<180		360	180	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromomethane	<290		730	290	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Carbon tetrachloride	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chlorobenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chloroethane	<180		360	180	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chloroform	<130		730	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chloromethane	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
2-Chlorotoluene	<110		360	110	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
4-Chlorotoluene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
cis-1,2-Dichloroethene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
cis-1,3-Dichloropropene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Dibromochloromethane	<180		360	180	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dibromo-3-Chloropropane	<720		1800	720	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dibromoethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Dibromomethane	<98		360	98	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichlorobenzene	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,3-Dichlorobenzene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,4-Dichlorobenzene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Dichlorodifluoromethane	<250 *		730	250	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1-Dichloroethane	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichloroethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1-Dichloroethene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichloropropane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,3-Dichloropropane	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
2,2-Dichloropropane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15

Date Collected: 02/06/17 13:50

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<110		360	110	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Ethylbenzene	<67		91	67	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Hexachlorobutadiene	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Isopropylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Isopropyl ether	<100		360	100	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Methylene Chloride	<590		1800	590	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Methyl tert-butyl ether	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Naphthalene	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
n-Butylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
N-Propylbenzene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
p-Isopropyltoluene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
sec-Butylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Styrene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
tert-Butylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,1,2-Tetrachloroethane	<170		360	170	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,2,2-Tetrachloroethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Tetrachloroethene	3200		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Toluene	<54		91	54	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
trans-1,2-Dichloroethene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
trans-1,3-Dichloropropene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,3-Trichlorobenzene	<170		360	170	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,4-Trichlorobenzene	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,1-Trichloroethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,2-Trichloroethane	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Trichloroethene	<60		180	60	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Trichlorofluoromethane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,3-Trichloropropane	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,4-Trimethylbenzene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,3,5-Trimethylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Vinyl chloride	<95		180	95	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Xylenes, Total	<80		180	80	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		71 - 120	02/06/17 13:50	02/09/17 19:10	50
Dibromofluoromethane	102		70 - 120	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichloroethane-d4 (Surr)	100		71 - 127	02/06/17 13:50	02/09/17 19:10	50
Toluene-d8 (Surr)	98		75 - 120	02/06/17 13:50	02/09/17 19:10	50

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Date Collected: 02/06/17 13:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromobenzene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromochloromethane	<38		88	38	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromodichloromethane	<33		88	33	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromoform	<42		88	42	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromomethane	<70		180	70	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Date Collected: 02/06/17 13:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chlorobenzene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chloroethane	<44		88	44	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chloroform	<32		180	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chloromethane	<28		88	28	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
2-Chlorotoluene	<28		88	28	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
4-Chlorotoluene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
cis-1,2-Dichloroethene	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
cis-1,3-Dichloropropene	<37		88	37	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Dibromochloromethane	<43		88	43	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dibromo-3-Chloropropane	<170		440	170	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dibromoethane	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Dibromomethane	<24		88	24	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichlorobenzene	<29		88	29	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,3-Dichlorobenzene	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,4-Dichlorobenzene	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Dichlorodifluoromethane	<59 *		180	59	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1-Dichloroethane	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichloroethane	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1-Dichloroethene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichloropropane	<38		88	38	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,3-Dichloropropane	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
2,2-Dichloropropane	<39		88	39	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1-Dichloropropene	<26		88	26	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Ethylbenzene	<16		22	16	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Hexachlorobutadiene	<39		88	39	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Isopropylbenzene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Isopropyl ether	<24		88	24	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Methylene Chloride	<140		440	140	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Methyl tert-butyl ether	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Naphthalene	<29		88	29	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
n-Butylbenzene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
N-Propylbenzene	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
p-Isopropyltoluene	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
sec-Butylbenzene	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Styrene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
tert-Butylbenzene	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,1,2-Tetrachloroethane	<41		88	41	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,2,2-Tetrachloroethane	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Tetrachloroethene	3000		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Toluene	<13		22	13	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
trans-1,2-Dichloroethene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
trans-1,3-Dichloropropene	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2,3-Trichlorobenzene	<40		88	40	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2,4-Trichlorobenzene	<30		88	30	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,1-Trichloroethane	<33		88	33	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,2-Trichloroethane	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Trichloroethene	<14		44	14	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Trichlorofluoromethane	<38		88	38	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Date Collected: 02/06/17 13:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2,4-Trimethylbenzene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,3,5-Trimethylbenzene	<33		88	33	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Vinyl chloride	<23		44	23	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Xylenes, Total	<19		44	19	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		71 - 120	02/06/17 13:55	02/10/17 16:06	50
Dibromofluoromethane	101		70 - 120	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichloroethane-d4 (Surr)	95		71 - 127	02/06/17 13:55	02/10/17 16:06	50
Toluene-d8 (Surr)	98		75 - 120	02/06/17 13:55	02/10/17 16:06	50

Client Sample ID: Trip Blank

Lab Sample ID: 500-123596-17

Date Collected: 02/06/17 00:00

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 16:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 16:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 16:34	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 16:34	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 16:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 16:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 16:34	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 16:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 16:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 16:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 16:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 16:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 16:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 16:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 16:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 16:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 16:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 16:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 16:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 16:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 16:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 16:34	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-123596-17

Date Collected: 02/06/17 00:00

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 16:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 16:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 16:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 16:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 16:34	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 16:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 16:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 16:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 16:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 16:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 16:34	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 16:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 16:34	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 16:34	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 16:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		71 - 127		02/10/17 16:34	1
Toluene-d8 (Surr)	98		75 - 120		02/10/17 16:34	1
4-Bromofluorobenzene (Surr)	95		71 - 120		02/10/17 16:34	1
Dibromofluoromethane	102		70 - 120		02/10/17 16:34	1

Client Sample ID: GP-7

Lab Sample ID: 500-123596-18

Date Collected: 02/06/17 10:10

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 17:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 17:02	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 17:02	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 17:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 17:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 17:02	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7
Date Collected: 02/06/17 10:10
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 17:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 17:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 17:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 17:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 17:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 17:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 17:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 17:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 17:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 17:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 17:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 17:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 17:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 17:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 17:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 17:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 17:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 17:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 17:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 17:02	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 17:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 17:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 17:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 17:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 17:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 17:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 17:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:02	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 17:02	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7
Date Collected: 02/06/17 10:10
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 17:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		71 - 127					02/10/17 17:02	1
Toluene-d8 (Surr)	99		75 - 120					02/10/17 17:02	1
4-Bromofluorobenzene (Surr)	95		71 - 120					02/10/17 17:02	1
Dibromofluoromethane	103		70 - 120					02/10/17 17:02	1

Client Sample ID: GP-8
Date Collected: 02/06/17 10:15
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 17:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 17:30	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 17:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 17:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 17:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 17:30	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 17:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 17:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 17:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 17:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 17:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 17:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 17:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 17:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 17:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 17:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 17:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 17:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 17:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 17:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 17:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 17:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 17:30	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-8

Lab Sample ID: 500-123596-19

Date Collected: 02/06/17 10:15

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 17:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 17:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 17:30	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 17:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 17:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 17:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 17:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 17:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 17:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 17:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 17:30	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 17:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		71 - 127		02/10/17 17:30	1
Toluene-d8 (Surr)	99		75 - 120		02/10/17 17:30	1
4-Bromofluorobenzene (Surr)	97		71 - 120		02/10/17 17:30	1
Dibromofluoromethane	102		70 - 120		02/10/17 17:30	1

Client Sample ID: GP-9

Lab Sample ID: 500-123596-20

Date Collected: 02/06/17 12:55

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 17:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 17:58	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 17:58	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 17:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 17:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 17:58	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 17:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 17:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 17:58	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-9

Lab Sample ID: 500-123596-20

Date Collected: 02/06/17 12:55

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 17:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 17:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 17:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 17:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 17:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 17:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 17:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 17:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 17:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 17:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 17:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 17:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 17:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 17:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 17:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 17:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 17:58	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 17:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 17:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 17:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 17:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 17:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 17:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 17:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:58	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 17:58	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 17:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 17:58	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-9
Date Collected: 02/06/17 12:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-20
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		71 - 127		02/10/17 17:58	1
Toluene-d8 (Surr)	99		75 - 120		02/10/17 17:58	1
4-Bromofluorobenzene (Surr)	96		71 - 120		02/10/17 17:58	1
Dibromofluoromethane	101		70 - 120		02/10/17 17:58	1

Client Sample ID: GP-10
Date Collected: 02/06/17 12:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/15/17 13:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/15/17 13:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/15/17 13:57	1
Bromoform	<0.48		1.0	0.48	ug/L			02/15/17 13:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/15/17 13:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/15/17 13:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/15/17 13:57	1
Chloroform	<0.37		2.0	0.37	ug/L			02/15/17 13:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/15/17 13:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/15/17 13:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/15/17 13:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/15/17 13:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/15/17 13:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/15/17 13:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/15/17 13:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/15/17 13:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/15/17 13:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/15/17 13:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/15/17 13:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/15/17 13:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/15/17 13:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/15/17 13:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/15/17 13:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/15/17 13:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/15/17 13:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10
Date Collected: 02/06/17 12:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
Styrene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/15/17 13:57	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/15/17 13:57	1
Toluene	<0.15		0.50	0.15	ug/L			02/15/17 13:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/15/17 13:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/15/17 13:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/15/17 13:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/15/17 13:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/15/17 13:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/15/17 13:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/15/17 13:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/15/17 13:57	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/15/17 13:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/15/17 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		02/15/17 13:57	1
Toluene-d8 (Surr)	100		75 - 120		02/15/17 13:57	1
4-Bromofluorobenzene (Surr)	100		71 - 120		02/15/17 13:57	1
Dibromofluoromethane	95		70 - 120		02/15/17 13:57	1

Client Sample ID: GP-11
Date Collected: 02/06/17 12:45
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/15/17 14:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/15/17 14:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/15/17 14:24	1
Bromoform	<0.48		1.0	0.48	ug/L			02/15/17 14:24	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/15/17 14:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/15/17 14:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/15/17 14:24	1
Chloroform	<0.37		2.0	0.37	ug/L			02/15/17 14:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/15/17 14:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/15/17 14:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/15/17 14:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/15/17 14:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/15/17 14:24	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11
Date Collected: 02/06/17 12:45
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/15/17 14:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/15/17 14:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/15/17 14:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/15/17 14:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/15/17 14:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/15/17 14:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/15/17 14:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/15/17 14:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/15/17 14:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/15/17 14:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/15/17 14:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/15/17 14:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
Styrene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/15/17 14:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/15/17 14:24	1
Toluene	<0.15		0.50	0.15	ug/L			02/15/17 14:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/15/17 14:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/15/17 14:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/15/17 14:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/15/17 14:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/15/17 14:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/15/17 14:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/15/17 14:24	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/15/17 14:24	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/15/17 14:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/15/17 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		02/15/17 14:24	1
Toluene-d8 (Surr)	100		75 - 120		02/15/17 14:24	1
4-Bromofluorobenzene (Surr)	101		71 - 120		02/15/17 14:24	1
Dibromofluoromethane	95		70 - 120		02/15/17 14:24	1

TestAmerica Chicago

Definitions/Glossary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

GC/MS VOA

Prep Batch: 371336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-1	GP-7 (0-2')	Total/NA	Solid	5035	
500-123596-2	GP-7 (5-7.5')	Total/NA	Solid	5035	
500-123596-3	GP-8 (2.5-5')	Total/NA	Solid	5035	
500-123596-4	GP-8 (5-7.5')	Total/NA	Solid	5035	
500-123596-5	GP-9 (2.5-5')	Total/NA	Solid	5035	
500-123596-6	GP-9 (5-7.5')	Total/NA	Solid	5035	
500-123596-7	GP-10 (2.5-5')	Total/NA	Solid	5035	
500-123596-8	GP-10 (5-7.5')	Total/NA	Solid	5035	
500-123596-9	GP-11 (0-2.5')	Total/NA	Solid	5035	
500-123596-10	GP-11 (5-7.5')	Total/NA	Solid	5035	
500-123596-11	MW-1 (2.5-5')	Total/NA	Solid	5035	
500-123596-12	MW-1 (5-7.5')	Total/NA	Solid	5035	
500-123596-13	MW-2 (2.5-5')	Total/NA	Solid	5035	
500-123596-14	MW-2 (5-7.5')	Total/NA	Solid	5035	
500-123596-15	MW-3 (0-2.5')	Total/NA	Solid	5035	
500-123596-16	MW-3 (5-7.5')	Total/NA	Solid	5035	
LB3 500-371336/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-371336/18-A	Lab Control Sample	Total/NA	Solid	5035	
500-123596-15 MS	MW-3 (0-2.5')	Total/NA	Solid	5035	
500-123596-15 MSD	MW-3 (0-2.5')	Total/NA	Solid	5035	

Analysis Batch: 371372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-1	GP-7 (0-2')	Total/NA	Solid	8260B	371336
500-123596-2	GP-7 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-3	GP-8 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-4	GP-8 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-5	GP-9 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-6	GP-9 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-7	GP-10 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-8	GP-10 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-9	GP-11 (0-2.5')	Total/NA	Solid	8260B	371336
500-123596-10	GP-11 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-11	MW-1 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-12	MW-1 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-13	MW-2 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-14	MW-2 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-15	MW-3 (0-2.5')	Total/NA	Solid	8260B	371336
LB3 500-371336/17-A	Method Blank	Total/NA	Solid	8260B	371336
MB 500-371372/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-371336/18-A	Lab Control Sample	Total/NA	Solid	8260B	371336
LCS 500-371372/4	Lab Control Sample	Total/NA	Solid	8260B	
500-123596-15 MS	MW-3 (0-2.5')	Total/NA	Solid	8260B	371336
500-123596-15 MSD	MW-3 (0-2.5')	Total/NA	Solid	8260B	371336

Analysis Batch: 371514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-17	Trip Blank	Total/NA	Water	8260B	
500-123596-18	GP-7	Total/NA	Water	8260B	
500-123596-19	GP-8	Total/NA	Water	8260B	
500-123596-20	GP-9	Total/NA	Water	8260B	

TestAmerica Chicago

QC Association Summary

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

GC/MS VOA (Continued)

Analysis Batch: 371514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-371514/6	Method Blank	Total/NA	Water	8260B	
LCS 500-371514/4	Lab Control Sample	Total/NA	Water	8260B	
500-123596-20 MS	GP-9	Total/NA	Water	8260B	
500-123596-20 MSD	GP-9	Total/NA	Water	8260B	

Analysis Batch: 371515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-16	MW-3 (5-7.5')	Total/NA	Solid	8260B	371336
MB 500-371515/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-371515/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 372077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-21	GP-10	Total/NA	Water	8260B	
500-123596-22	GP-11	Total/NA	Water	8260B	
MB 500-372077/6	Method Blank	Total/NA	Water	8260B	
LCS 500-372077/4	Lab Control Sample	Total/NA	Water	8260B	

General Chemistry

Analysis Batch: 371426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-1	GP-7 (0-2')	Total/NA	Solid	Moisture	
500-123596-2	GP-7 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-3	GP-8 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-4	GP-8 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-5	GP-9 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-6	GP-9 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-7	GP-10 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-8	GP-10 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-9	GP-11 (0-2.5')	Total/NA	Solid	Moisture	
500-123596-10	GP-11 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-11	MW-1 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-12	MW-1 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-13	MW-2 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-14	MW-2 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-15	MW-3 (0-2.5')	Total/NA	Solid	Moisture	
500-123596-16	MW-3 (5-7.5')	Total/NA	Solid	Moisture	

Surrogate Summary

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-123596-1	GP-7 (0-2')	94	105	104	96
500-123596-2	GP-7 (5-7.5')	94	102	100	97
500-123596-3	GP-8 (2.5-5')	95	104	103	96
500-123596-4	GP-8 (5-7.5')	92	104	102	97
500-123596-5	GP-9 (2.5-5')	93	105	103	96
500-123596-6	GP-9 (5-7.5')	92	104	105	96
500-123596-7	GP-10 (2.5-5')	93	103	102	96
500-123596-8	GP-10 (5-7.5')	92	103	103	96
500-123596-9	GP-11 (0-2.5')	94	102	102	96
500-123596-10	GP-11 (5-7.5')	94	103	102	97
500-123596-11	MW-1 (2.5-5')	93	104	102	97
500-123596-12	MW-1 (5-7.5')	94	103	100	96
500-123596-13	MW-2 (2.5-5')	96	102	100	98
500-123596-14	MW-2 (5-7.5')	96	101	96	98
500-123596-15	MW-3 (0-2.5')	97	102	100	98
500-123596-15 MS	MW-3 (0-2.5')	97	98	96	99
500-123596-15 MSD	MW-3 (0-2.5')	98	98	97	98
500-123596-16	MW-3 (5-7.5')	93	101	95	98
LB3 500-371336/17-A	Method Blank	95	105	105	96
LCS 500-371336/18-A	Lab Control Sample	94	97	95	100
LCS 500-371372/4	Lab Control Sample	96	97	93	100
LCS 500-371515/4	Lab Control Sample	94	96	93	101
MB 500-371372/6	Method Blank	93	101	96	97
MB 500-371515/6	Method Blank	94	101	98	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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	TOL	BFB	DBFM
		(71-127)	(75-120)	(71-120)	(70-120)
500-123596-17	Trip Blank	96	98	95	102
500-123596-18	GP-7	98	99	95	103
500-123596-19	GP-8	95	99	97	102
500-123596-20	GP-9	96	99	96	101
500-123596-20 MS	GP-9	94	99	94	98
500-123596-20 MSD	GP-9	96	100	96	99
500-123596-21	GP-10	105	100	100	95
500-123596-22	GP-11	105	100	101	95
LCS 500-371514/4	Lab Control Sample	93	101	94	96
LCS 500-372077/4	Lab Control Sample	101	101	98	94
MB 500-371514/6	Method Blank	98	99	94	101
MB 500-372077/6	Method Blank	104	100	100	95

TestAmerica Chicago

Surrogate Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LB3 500-371336/17-A

Matrix: Solid

Analysis Batch: 371372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 371336

Analyte	LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromobenzene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromochloromethane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromodichloromethane	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromoform	<24		50	24	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromomethane	<40		100	40	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Carbon tetrachloride	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chlorobenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chloroethane	<25		50	25	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chloroform	<19		100	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chloromethane	<16		50	16	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
2-Chlorotoluene	<16		50	16	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
4-Chlorotoluene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Dibromochloromethane	<24		50	24	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dibromoethane	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Dibromomethane	<14		50	14	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1-Dichloroethane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dichloroethane	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1-Dichloroethene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dichloropropane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,3-Dichloropropane	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
2,2-Dichloropropane	<22		50	22	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1-Dichloropropene	<15		50	15	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Hexachlorobutadiene	<22		50	22	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Isopropylbenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Isopropyl ether	<14		50	14	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Methylene Chloride	<82		250	82	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Naphthalene	<17		50	17	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
n-Butylbenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
N-Propylbenzene	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
p-Isopropyltoluene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
sec-Butylbenzene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Styrene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
tert-Butylbenzene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Tetrachloroethene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Toluene	<7.4		13	7.4	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LB3 500-371336/17-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371336

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Trichloroethene	<8.2		25	8.2	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Trichlorofluoromethane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Vinyl chloride	<13		25	13	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Xylenes, Total	<11		25	11	ug/Kg		02/08/17 21:40	02/09/17 11:44	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		71 - 127	02/08/17 21:40	02/09/17 11:44	50
4-Bromofluorobenzene (Surr)	95		71 - 120	02/08/17 21:40	02/09/17 11:44	50
Dibromofluoromethane	105		70 - 120	02/08/17 21:40	02/09/17 11:44	50
Toluene-d8 (Surr)	96		75 - 120	02/08/17 21:40	02/09/17 11:44	50

Lab Sample ID: LCS 500-371336/18-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	2500	2380		ug/Kg		95	70 - 125
Bromobenzene	2500	2430		ug/Kg		97	70 - 125
Bromochloromethane	2500	2440		ug/Kg		98	70 - 125
Bromodichloromethane	2500	2290		ug/Kg		92	70 - 125
Bromoform	2500	2520		ug/Kg		101	54 - 128
Bromomethane	2500	2040		ug/Kg		82	40 - 150
Carbon tetrachloride	2500	2560		ug/Kg		102	70 - 125
Chlorobenzene	2500	2530		ug/Kg		101	70 - 125
Chloroethane	2500	2200		ug/Kg		88	60 - 139
Chloroform	2500	2360		ug/Kg		94	70 - 125
Chloromethane	2500	2120		ug/Kg		85	60 - 140
2-Chlorotoluene	2500	2460		ug/Kg		98	69 - 125
4-Chlorotoluene	2500	2420		ug/Kg		97	70 - 125
cis-1,2-Dichloroethene	2500	2430		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	2500	2300		ug/Kg		92	70 - 125
Dibromochloromethane	2500	2470		ug/Kg		99	66 - 125
1,2-Dibromo-3-Chloropropane	2500	1840		ug/Kg		74	51 - 125
1,2-Dibromoethane	2500	2380		ug/Kg		95	70 - 125
Dibromomethane	2500	2420		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	2500	2400		ug/Kg		96	70 - 125
1,3-Dichlorobenzene	2500	2480		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	2500	2450		ug/Kg		98	70 - 125
Dichlorodifluoromethane	2500	1080	*	ug/Kg		43	51 - 140
1,1-Dichloroethane	2500	2380		ug/Kg		95	70 - 125

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QC Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LCS 500-371336/18-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	2320		ug/Kg		93	70 - 125
1,1-Dichloroethene	2500	2420		ug/Kg		97	70 - 125
1,2-Dichloropropane	2500	2470		ug/Kg		99	70 - 125
1,3-Dichloropropane	2500	2440		ug/Kg		97	70 - 125
2,2-Dichloropropane	2500	2190		ug/Kg		87	62 - 125
1,1-Dichloropropene	2500	2440		ug/Kg		98	70 - 125
Ethylbenzene	2500	2560		ug/Kg		102	70 - 125
Hexachlorobutadiene	2500	2740		ug/Kg		110	57 - 140
Isopropylbenzene	2500	2560		ug/Kg		102	70 - 125
Methylene Chloride	2500	2320		ug/Kg		93	68 - 125
Methyl tert-butyl ether	2500	1920		ug/Kg		77	67 - 125
Naphthalene	2500	1780		ug/Kg		71	50 - 136
n-Butylbenzene	2500	2490		ug/Kg		100	70 - 125
N-Propylbenzene	2500	2560		ug/Kg		103	70 - 125
p-Isopropyltoluene	2500	2520		ug/Kg		101	70 - 125
sec-Butylbenzene	2500	2570		ug/Kg		103	70 - 125
Styrene	2500	2490		ug/Kg		100	70 - 125
tert-Butylbenzene	2500	2500		ug/Kg		100	70 - 125
1,1,1,2-Tetrachloroethane	2500	2490		ug/Kg		100	68 - 125
1,1,1,2,2-Tetrachloroethane	2500	2210		ug/Kg		88	68 - 125
Tetrachloroethene	2500	2630		ug/Kg		105	70 - 125
Toluene	2500	2450		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	2500	2470		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	2500	2270		ug/Kg		91	70 - 125
1,2,3-Trichlorobenzene	2500	2020		ug/Kg		81	58 - 135
1,2,4-Trichlorobenzene	2500	2130		ug/Kg		85	64 - 126
1,1,1-Trichloroethane	2500	2440		ug/Kg		98	70 - 125
1,1,2-Trichloroethane	2500	2390		ug/Kg		96	70 - 125
Trichloroethene	2500	2590		ug/Kg		103	70 - 125
Trichlorofluoromethane	2500	2290		ug/Kg		92	60 - 126
1,2,3-Trichloropropane	2500	2110		ug/Kg		84	63 - 125
1,2,4-Trimethylbenzene	2500	2490		ug/Kg		99	70 - 125
1,3,5-Trimethylbenzene	2500	2460		ug/Kg		99	70 - 125
Vinyl chloride	2500	2060		ug/Kg		82	70 - 126
Xylenes, Total	5000	4860		ug/Kg		97	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		71 - 127
4-Bromofluorobenzene (Surr)	94		71 - 120
Dibromofluoromethane	97		70 - 120
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: 500-123596-15 MS
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<53		18200	15500		ug/Kg	☼	85	70 - 125

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: 500-123596-15 MS

Matrix: Solid

Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')

Prep Type: Total/NA

Prep Batch: 371336

Analyte	Sample	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
	Result			MS Result	MS Qualifier				
Bromobenzene	<130		18200	16800		ug/Kg	☼	92	70 - 125
Bromochloromethane	<160		18200	16400		ug/Kg	☼	90	70 - 125
Bromodichloromethane	<140		18200	15400		ug/Kg	☼	85	70 - 125
Bromoform	<180		18200	17700		ug/Kg	☼	97	54 - 128
Bromomethane	<290		18200	12900		ug/Kg	☼	71	40 - 150
Carbon tetrachloride	<140		18200	16200		ug/Kg	☼	89	70 - 125
Chlorobenzene	<140		18200	16500		ug/Kg	☼	90	70 - 125
Chloroethane	<180		18200	15800		ug/Kg	☼	87	60 - 139
Chloroform	<130		18200	15400		ug/Kg	☼	85	70 - 125
Chloromethane	<120		18200	16200		ug/Kg	☼	89	60 - 140
2-Chlorotoluene	<110		18200	16400		ug/Kg	☼	90	69 - 125
4-Chlorotoluene	<130		18200	15700		ug/Kg	☼	86	70 - 125
cis-1,2-Dichloroethene	<150		18200	15900		ug/Kg	☼	87	70 - 125
cis-1,3-Dichloropropene	<150		18200	15200		ug/Kg	☼	84	70 - 125
Dibromochloromethane	<180		18200	16800		ug/Kg	☼	92	66 - 125
1,2-Dibromo-3-Chloropropane	<720		18200	13200		ug/Kg	☼	72	51 - 125
1,2-Dibromoethane	<140		18200	16500		ug/Kg	☼	91	70 - 125
Dibromomethane	<98		18200	16600		ug/Kg	☼	91	70 - 125
1,2-Dichlorobenzene	<120		18200	16100		ug/Kg	☼	89	70 - 125
1,3-Dichlorobenzene	<150		18200	15800		ug/Kg	☼	87	70 - 125
1,4-Dichlorobenzene	<130		18200	15800		ug/Kg	☼	87	70 - 125
Dichlorodifluoromethane	<250 *		18200	10300		ug/Kg	☼	57	51 - 140
1,1-Dichloroethane	<150		18200	15500		ug/Kg	☼	85	70 - 125
1,2-Dichloroethane	<140		18200	15900		ug/Kg	☼	87	70 - 125
1,1-Dichloroethene	<140		18200	15600		ug/Kg	☼	85	70 - 125
1,2-Dichloropropane	<160		18200	16200		ug/Kg	☼	89	70 - 125
1,3-Dichloropropane	<130		18200	16600		ug/Kg	☼	91	70 - 125
2,2-Dichloropropane	<160		18200	13200		ug/Kg	☼	72	62 - 125
1,1-Dichloropropene	<110		18200	15500		ug/Kg	☼	85	70 - 125
Ethylbenzene	<67		18200	16200		ug/Kg	☼	89	70 - 125
Hexachlorobutadiene	<160		18200	16700		ug/Kg	☼	92	57 - 140
Isopropylbenzene	<140		18200	16800		ug/Kg	☼	93	70 - 125
Methylene Chloride	<590		18200	15700		ug/Kg	☼	86	68 - 125
Methyl tert-butyl ether	<140		18200	12900		ug/Kg	☼	71	67 - 125
Naphthalene	<120		18200	12000		ug/Kg	☼	66	50 - 136
n-Butylbenzene	<140		18200	14600		ug/Kg	☼	80	70 - 125
N-Propylbenzene	<150		18200	16400		ug/Kg	☼	90	70 - 125
p-Isopropyltoluene	<130		18200	16700		ug/Kg	☼	92	70 - 125
sec-Butylbenzene	<140		18200	16600		ug/Kg	☼	91	70 - 125
Styrene	<140		18200	16200		ug/Kg	☼	89	70 - 125
tert-Butylbenzene	<140		18200	15800		ug/Kg	☼	87	70 - 125
1,1,1,2-Tetrachloroethane	<170		18200	16700		ug/Kg	☼	91	68 - 125
1,1,1,2,2-Tetrachloroethane	<140		18200	15800		ug/Kg	☼	87	68 - 125
Tetrachloroethene	3200		18200	19600		ug/Kg	☼	90	70 - 125
Toluene	<54		18200	15800		ug/Kg	☼	87	70 - 125
trans-1,2-Dichloroethene	<130		18200	15700		ug/Kg	☼	87	70 - 125
trans-1,3-Dichloropropene	<130		18200	14800		ug/Kg	☼	81	70 - 125
1,2,3-Trichlorobenzene	<170		18200	12600		ug/Kg	☼	69	58 - 135

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: 500-123596-15 MS

Matrix: Solid

Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')

Prep Type: Total/NA

Prep Batch: 371336

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
1,2,4-Trichlorobenzene	<120		18200	12000		ug/Kg	☼	66	64 - 126	
1,1,1-Trichloroethane	<140		18200	15500		ug/Kg	☼	85	70 - 125	
1,1,2-Trichloroethane	<130		18200	16900		ug/Kg	☼	93	70 - 125	
Trichloroethene	<60		18200	16300		ug/Kg	☼	90	70 - 125	
Trichlorofluoromethane	<160		18200	16200		ug/Kg	☼	89	60 - 126	
1,2,3-Trichloropropane	<150		18200	15200		ug/Kg	☼	83	63 - 125	
1,2,4-Trimethylbenzene	<130		18200	15800		ug/Kg	☼	87	70 - 125	
1,3,5-Trimethylbenzene	<140		18200	16100		ug/Kg	☼	88	70 - 125	
Vinyl chloride	<95		18200	15600		ug/Kg	☼	86	70 - 126	
Xylenes, Total	<80		36400	31000		ug/Kg	☼	85	70 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	96		71 - 127							
4-Bromofluorobenzene (Surr)	97		71 - 120							
Dibromofluoromethane	98		70 - 120							
Toluene-d8 (Surr)	99		75 - 120							

Lab Sample ID: 500-123596-15 MSD

Matrix: Solid

Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')

Prep Type: Total/NA

Prep Batch: 371336

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<53		18200	15800		ug/Kg	☼	87	70 - 125	2	30
Bromobenzene	<130		18200	17500		ug/Kg	☼	96	70 - 125	4	30
Bromochloromethane	<160		18200	17200		ug/Kg	☼	95	70 - 125	5	30
Bromodichloromethane	<140		18200	15800		ug/Kg	☼	87	70 - 125	3	30
Bromoform	<180		18200	18300		ug/Kg	☼	100	54 - 128	3	30
Bromomethane	<290		18200	14600		ug/Kg	☼	80	40 - 150	12	30
Carbon tetrachloride	<140		18200	16200		ug/Kg	☼	89	70 - 125	0	30
Chlorobenzene	<140		18200	16800		ug/Kg	☼	92	70 - 125	2	30
Chloroethane	<180		18200	15700		ug/Kg	☼	86	60 - 139	1	30
Chloroform	<130		18200	15800		ug/Kg	☼	87	70 - 125	2	30
Chloromethane	<120		18200	16600		ug/Kg	☼	91	60 - 140	3	30
2-Chlorotoluene	<110		18200	16700		ug/Kg	☼	92	69 - 125	2	30
4-Chlorotoluene	<130		18200	16300		ug/Kg	☼	89	70 - 125	3	30
cis-1,2-Dichloroethene	<150		18200	16400		ug/Kg	☼	90	70 - 125	3	30
cis-1,3-Dichloropropene	<150		18200	15700		ug/Kg	☼	86	70 - 125	3	30
Dibromochloromethane	<180		18200	17600		ug/Kg	☼	97	66 - 125	5	30
1,2-Dibromo-3-Chloropropane	<720		18200	15000		ug/Kg	☼	82	51 - 125	13	30
1,2-Dibromoethane	<140		18200	17300		ug/Kg	☼	95	70 - 125	5	30
Dibromomethane	<98		18200	17500		ug/Kg	☼	96	70 - 125	5	30
1,2-Dichlorobenzene	<120		18200	17000		ug/Kg	☼	93	70 - 125	5	30
1,3-Dichlorobenzene	<150		18200	16700		ug/Kg	☼	92	70 - 125	5	30
1,4-Dichlorobenzene	<130		18200	16500		ug/Kg	☼	90	70 - 125	4	30
Dichlorodifluoromethane	<250 *		18200	10100		ug/Kg	☼	56	51 - 140	2	30
1,1-Dichloroethane	<150		18200	15900		ug/Kg	☼	87	70 - 125	3	30
1,2-Dichloroethane	<140		18200	16800		ug/Kg	☼	92	70 - 125	5	30
1,1-Dichloroethene	<140		18200	15800		ug/Kg	☼	87	70 - 125	1	30

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: 500-123596-15 MSD

Matrix: Solid

Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')

Prep Type: Total/NA

Prep Batch: 371336

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dichloropropane	<160		18200	17000		ug/Kg	☼	93	70 - 125	5	30
1,3-Dichloropropane	<130		18200	17200		ug/Kg	☼	95	70 - 125	3	30
2,2-Dichloropropane	<160		18200	13600		ug/Kg	☼	75	62 - 125	3	30
1,1-Dichloropropene	<110		18200	15500		ug/Kg	☼	85	70 - 125	0	30
Ethylbenzene	<67		18200	16500		ug/Kg	☼	91	70 - 125	2	30
Hexachlorobutadiene	<160		18200	17300		ug/Kg	☼	95	57 - 140	4	30
Isopropylbenzene	<140		18200	17200		ug/Kg	☼	95	70 - 125	2	30
Methylene Chloride	<590		18200	16200		ug/Kg	☼	89	68 - 125	3	30
Methyl tert-butyl ether	<140		18200	13600		ug/Kg	☼	75	67 - 125	6	30
Naphthalene	<120		18200	13500		ug/Kg	☼	74	50 - 136	12	30
n-Butylbenzene	<140		18200	15000		ug/Kg	☼	82	70 - 125	3	30
N-Propylbenzene	<150		18200	16700		ug/Kg	☼	92	70 - 125	2	30
p-Isopropyltoluene	<130		18200	17100		ug/Kg	☼	94	70 - 125	2	30
sec-Butylbenzene	<140		18200	17000		ug/Kg	☼	93	70 - 125	2	30
Styrene	<140		18200	16600		ug/Kg	☼	91	70 - 125	2	30
tert-Butylbenzene	<140		18200	16300		ug/Kg	☼	90	70 - 125	3	30
1,1,1,2-Tetrachloroethane	<170		18200	16800		ug/Kg	☼	92	68 - 125	1	30
1,1,1,2,2-Tetrachloroethane	<140		18200	17400		ug/Kg	☼	95	68 - 125	10	30
Tetrachloroethene	3200		18200	20100		ug/Kg	☼	93	70 - 125	2	30
Toluene	<54		18200	16000		ug/Kg	☼	88	70 - 125	1	30
trans-1,2-Dichloroethene	<130		18200	16100		ug/Kg	☼	88	70 - 125	2	30
trans-1,3-Dichloropropene	<130		18200	15800		ug/Kg	☼	87	70 - 125	7	30
1,2,3-Trichlorobenzene	<170		18200	13800		ug/Kg	☼	76	58 - 135	9	30
1,2,4-Trichlorobenzene	<120		18200	13300		ug/Kg	☼	73	64 - 126	10	30
1,1,1-Trichloroethane	<140		18200	16000		ug/Kg	☼	88	70 - 125	3	30
1,1,2-Trichloroethane	<130		18200	17100		ug/Kg	☼	94	70 - 125	2	30
Trichloroethene	<60		18200	16500		ug/Kg	☼	90	70 - 125	1	30
Trichlorofluoromethane	<160		18200	16000		ug/Kg	☼	88	60 - 126	1	30
1,2,3-Trichloropropane	<150		18200	15700		ug/Kg	☼	86	63 - 125	4	30
1,2,4-Trimethylbenzene	<130		18200	16500		ug/Kg	☼	90	70 - 125	4	30
1,3,5-Trimethylbenzene	<140		18200	16500		ug/Kg	☼	91	70 - 125	3	30
Vinyl chloride	<95		18200	15800		ug/Kg	☼	87	70 - 126	1	30
Xylenes, Total	<80		36400	31500		ug/Kg	☼	86	70 - 125	2	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		71 - 127
4-Bromofluorobenzene (Surr)	98		71 - 120
Dibromofluoromethane	98		70 - 120
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: MB 500-371372/6

Matrix: Solid

Analysis Batch: 371372

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.25	0.15	ug/Kg			02/09/17 11:17	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			02/09/17 11:17	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-371372/6
Matrix: Solid
Analysis Batch: 371372

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			02/09/17 11:17	1
Bromoform	<0.48		1.0	0.48	ug/Kg			02/09/17 11:17	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			02/09/17 11:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			02/09/17 11:17	1
Chloroform	<0.37		2.0	0.37	ug/Kg			02/09/17 11:17	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			02/09/17 11:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			02/09/17 11:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			02/09/17 11:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			02/09/17 11:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			02/09/17 11:17	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			02/09/17 11:17	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			02/09/17 11:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			02/09/17 11:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			02/09/17 11:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			02/09/17 11:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			02/09/17 11:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			02/09/17 11:17	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			02/09/17 11:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			02/09/17 11:17	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			02/09/17 11:17	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			02/09/17 11:17	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			02/09/17 11:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
Styrene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			02/09/17 11:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			02/09/17 11:17	1
Toluene	<0.15		0.25	0.15	ug/Kg			02/09/17 11:17	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			02/09/17 11:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			02/09/17 11:17	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			02/09/17 11:17	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-371372/6
Matrix: Solid
Analysis Batch: 371372

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	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			02/09/17 11:17	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			02/09/17 11:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			02/09/17 11:17	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			02/09/17 11:17	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			02/09/17 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		71 - 127		02/09/17 11:17	1
4-Bromofluorobenzene (Surr)	93		71 - 120		02/09/17 11:17	1
Dibromofluoromethane	101		70 - 120		02/09/17 11:17	1
Toluene-d8 (Surr)	97		75 - 120		02/09/17 11:17	1

Lab Sample ID: LCS 500-371372/4
Matrix: Solid
Analysis Batch: 371372

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.0		ug/Kg		98	70 - 125
Bromobenzene	50.0	52.4		ug/Kg		105	70 - 125
Bromochloromethane	50.0	50.7		ug/Kg		101	70 - 125
Bromodichloromethane	50.0	48.1		ug/Kg		96	70 - 125
Bromoform	50.0	53.2		ug/Kg		106	54 - 128
Bromomethane	50.0	43.0		ug/Kg		86	40 - 150
Carbon tetrachloride	50.0	50.9		ug/Kg		102	70 - 125
Chlorobenzene	50.0	52.6		ug/Kg		105	70 - 125
Chloroethane	50.0	46.3		ug/Kg		93	60 - 139
Chloroform	50.0	48.7		ug/Kg		97	70 - 125
Chloromethane	50.0	49.5		ug/Kg		99	60 - 140
2-Chlorotoluene	50.0	52.6		ug/Kg		105	69 - 125
4-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
cis-1,2-Dichloroethene	50.0	50.2		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 125
Dibromochloromethane	50.0	52.0		ug/Kg		104	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.6		ug/Kg		81	51 - 125
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	70 - 125
Dibromomethane	50.0	50.3		ug/Kg		101	70 - 125
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 125
1,3-Dichlorobenzene	50.0	52.7		ug/Kg		105	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 125
Dichlorodifluoromethane	50.0	30.4		ug/Kg		61	51 - 140
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	49.4		ug/Kg		99	70 - 125
1,2-Dichloropropane	50.0	51.6		ug/Kg		103	70 - 125

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LCS 500-371372/4
Matrix: Solid
Analysis Batch: 371372

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	51.1		ug/Kg		102	70 - 125
2,2-Dichloropropane	50.0	44.2		ug/Kg		88	62 - 125
1,1-Dichloropropene	50.0	49.4		ug/Kg		99	70 - 125
Ethylbenzene	50.0	53.0		ug/Kg		106	70 - 125
Hexachlorobutadiene	50.0	56.4		ug/Kg		113	57 - 140
Isopropylbenzene	50.0	54.1		ug/Kg		108	70 - 125
Methylene Chloride	50.0	48.1		ug/Kg		96	68 - 125
Methyl tert-butyl ether	50.0	39.6		ug/Kg		79	67 - 125
Naphthalene	50.0	37.4		ug/Kg		75	50 - 136
n-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 125
N-Propylbenzene	50.0	53.9		ug/Kg		108	70 - 125
p-Isopropyltoluene	50.0	53.0		ug/Kg		106	70 - 125
sec-Butylbenzene	50.0	53.3		ug/Kg		107	70 - 125
Styrene	50.0	52.2		ug/Kg		104	70 - 125
tert-Butylbenzene	50.0	52.9		ug/Kg		106	70 - 125
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	68 - 125
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	68 - 125
Tetrachloroethene	50.0	53.2		ug/Kg		106	70 - 125
Toluene	50.0	50.8		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	70 - 125
1,2,3-Trichlorobenzene	50.0	41.2		ug/Kg		82	58 - 135
1,2,4-Trichlorobenzene	50.0	42.5		ug/Kg		85	64 - 126
1,1,1-Trichloroethane	50.0	49.3		ug/Kg		99	70 - 125
1,1,2-Trichloroethane	50.0	50.9		ug/Kg		102	70 - 125
Trichloroethene	50.0	51.2		ug/Kg		102	70 - 125
Trichlorofluoromethane	50.0	48.1		ug/Kg		96	60 - 126
1,2,3-Trichloropropane	50.0	45.8		ug/Kg		92	63 - 125
1,2,4-Trimethylbenzene	50.0	52.3		ug/Kg		105	70 - 125
1,3,5-Trimethylbenzene	50.0	51.7		ug/Kg		103	70 - 125
Vinyl chloride	50.0	46.5		ug/Kg		93	70 - 126
Xylenes, Total	100	100		ug/Kg		100	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		71 - 127
4-Bromofluorobenzene (Surr)	96		71 - 120
Dibromofluoromethane	97		70 - 120
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: MB 500-371514/6
Matrix: Water
Analysis Batch: 371514

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 10:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 10:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 10:03	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-371514/6
Matrix: Water
Analysis Batch: 371514

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 10:03	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 10:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 10:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 10:03	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 10:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 10:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 10:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 10:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 10:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 10:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 10:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 10:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 10:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 10:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 10:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 10:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 10:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 10:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 10:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 10:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 10:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 10:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 10:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 10:03	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 10:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 10:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 10:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 10:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 10:03	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-371514/6
Matrix: Water
Analysis Batch: 371514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 10:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 10:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 10:03	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 10:03	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 10:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		71 - 127		02/10/17 10:03	1
4-Bromofluorobenzene (Surr)	94		71 - 120		02/10/17 10:03	1
Dibromofluoromethane	101		70 - 120		02/10/17 10:03	1
Toluene-d8 (Surr)	99		75 - 120		02/10/17 10:03	1

Lab Sample ID: LCS 500-371514/4
Matrix: Water
Analysis Batch: 371514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.6		ug/L		99	70 - 125
Bromobenzene	50.0	53.4		ug/L		107	70 - 125
Bromochloromethane	50.0	51.4		ug/L		103	70 - 125
Bromodichloromethane	50.0	48.0		ug/L		96	70 - 125
Bromoform	50.0	54.5		ug/L		109	54 - 128
Bromomethane	50.0	41.2		ug/L		82	40 - 150
Carbon tetrachloride	50.0	53.0		ug/L		106	70 - 125
Chlorobenzene	50.0	53.4		ug/L		107	70 - 125
Chloroethane	50.0	43.6		ug/L		87	60 - 139
Chloroform	50.0	48.9		ug/L		98	70 - 125
Chloromethane	50.0	46.8		ug/L		94	60 - 140
2-Chlorotoluene	50.0	53.0		ug/L		106	69 - 125
4-Chlorotoluene	50.0	52.3		ug/L		105	70 - 125
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 125
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	70 - 125
Dibromochloromethane	50.0	52.8		ug/L		106	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/L		79	51 - 125
1,2-Dibromoethane	50.0	51.1		ug/L		102	70 - 125
Dibromomethane	50.0	50.8		ug/L		102	70 - 125
1,2-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/L		107	70 - 125
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 125
Dichlorodifluoromethane	50.0	27.9		ug/L		56	51 - 140
1,1-Dichloroethane	50.0	49.8		ug/L		100	70 - 125
1,2-Dichloroethane	50.0	49.1		ug/L		98	70 - 125
1,1-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 125
1,3-Dichloropropane	50.0	52.4		ug/L		105	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LCS 500-371514/4
Matrix: Water
Analysis Batch: 371514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	44.7		ug/L		89	62 - 125
1,1-Dichloropropene	50.0	50.2		ug/L		100	70 - 125
Ethylbenzene	50.0	54.3		ug/L		109	70 - 125
Hexachlorobutadiene	50.0	59.5		ug/L		119	57 - 140
Isopropylbenzene	50.0	55.2		ug/L		110	70 - 125
Methylene Chloride	50.0	48.8		ug/L		98	68 - 125
Methyl tert-butyl ether	50.0	40.4		ug/L		81	67 - 125
Naphthalene	50.0	37.5		ug/L		75	50 - 136
n-Butylbenzene	50.0	52.6		ug/L		105	70 - 125
N-Propylbenzene	50.0	54.9		ug/L		110	70 - 125
p-Isopropyltoluene	50.0	54.0		ug/L		108	70 - 125
sec-Butylbenzene	50.0	54.6		ug/L		109	70 - 125
Styrene	50.0	52.5		ug/L		105	70 - 125
tert-Butylbenzene	50.0	54.0		ug/L		108	70 - 125
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	68 - 125
1,1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	68 - 125
Tetrachloroethene	50.0	56.1		ug/L		112	70 - 125
Toluene	50.0	51.6		ug/L		103	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	70 - 125
1,2,3-Trichlorobenzene	50.0	42.2		ug/L		84	58 - 135
1,2,4-Trichlorobenzene	50.0	44.4		ug/L		89	64 - 126
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 125
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 125
Trichloroethene	50.0	52.9		ug/L		106	70 - 125
Trichlorofluoromethane	50.0	45.3		ug/L		91	60 - 126
1,2,3-Trichloropropane	50.0	45.5		ug/L		91	63 - 125
1,2,4-Trimethylbenzene	50.0	53.1		ug/L		106	70 - 125
1,3,5-Trimethylbenzene	50.0	53.0		ug/L		106	70 - 125
Vinyl chloride	50.0	42.8		ug/L		86	70 - 126
Xylenes, Total	100	103		ug/L		103	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		71 - 127
4-Bromofluorobenzene (Surr)	94		71 - 120
Dibromofluoromethane	96		70 - 120
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-123596-20 MS
Matrix: Water
Analysis Batch: 371514

Client Sample ID: GP-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		50.0	50.0		ug/L		100	70 - 125
Bromobenzene	<0.36		50.0	54.2		ug/L		108	70 - 125
Bromochloromethane	<0.43		50.0	52.6		ug/L		105	70 - 125
Bromodichloromethane	<0.37		50.0	49.7		ug/L		99	70 - 125
Bromoform	<0.48		50.0	56.6		ug/L		113	54 - 128

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: 500-123596-20 MS

Matrix: Water

Analysis Batch: 371514

Client Sample ID: GP-9

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	<0.80		50.0	39.8		ug/L		80	40 - 150
Carbon tetrachloride	<0.38		50.0	53.5		ug/L		107	70 - 125
Chlorobenzene	<0.39		50.0	54.3		ug/L		109	70 - 125
Chloroethane	<0.51		50.0	46.6		ug/L		93	60 - 139
Chloroform	<0.37		50.0	50.5		ug/L		101	70 - 125
Chloromethane	<0.32		50.0	48.8		ug/L		98	60 - 140
2-Chlorotoluene	<0.31		50.0	52.3		ug/L		105	69 - 125
4-Chlorotoluene	<0.35		50.0	51.2		ug/L		102	70 - 125
cis-1,2-Dichloroethene	<0.41		50.0	52.3		ug/L		105	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	50.1		ug/L		100	70 - 125
Dibromochloromethane	<0.49		50.0	54.3		ug/L		109	66 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.3		ug/L		81	51 - 125
1,2-Dibromoethane	<0.39		50.0	52.8		ug/L		106	70 - 125
Dibromomethane	<0.27		50.0	53.0		ug/L		106	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	52.1		ug/L		104	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	52.4		ug/L		105	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	52.2		ug/L		104	70 - 125
Dichlorodifluoromethane	<0.67		50.0	29.2		ug/L		58	51 - 140
1,1-Dichloroethane	<0.41		50.0	50.0		ug/L		100	70 - 125
1,2-Dichloroethane	<0.39		50.0	51.8		ug/L		104	70 - 125
1,1-Dichloroethene	<0.39		50.0	49.2		ug/L		98	70 - 125
1,2-Dichloropropane	<0.43		50.0	52.9		ug/L		106	70 - 125
1,3-Dichloropropane	<0.36		50.0	52.9		ug/L		106	70 - 125
2,2-Dichloropropane	<0.44		50.0	42.6		ug/L		85	62 - 125
1,1-Dichloropropene	<0.30		50.0	50.5		ug/L		101	70 - 125
Ethylbenzene	<0.18		50.0	54.2		ug/L		108	70 - 125
Hexachlorobutadiene	<0.45		50.0	55.5		ug/L		111	57 - 140
Isopropylbenzene	<0.39		50.0	54.1		ug/L		108	70 - 125
Methylene Chloride	<1.6		50.0	49.8		ug/L		100	68 - 125
Methyl tert-butyl ether	<0.39		50.0	41.3		ug/L		83	67 - 125
Naphthalene	<0.34		50.0	37.8		ug/L		76	50 - 136
n-Butylbenzene	<0.39		50.0	49.3		ug/L		99	70 - 125
N-Propylbenzene	<0.41		50.0	53.1		ug/L		106	70 - 125
p-Isopropyltoluene	<0.36		50.0	53.5		ug/L		107	70 - 125
sec-Butylbenzene	<0.40		50.0	52.9		ug/L		106	70 - 125
Styrene	<0.39		50.0	53.5		ug/L		107	70 - 125
tert-Butylbenzene	<0.40		50.0	52.2		ug/L		104	70 - 125
1,1,1,2-Tetrachloroethane	<0.46		50.0	54.3		ug/L		109	68 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.3		ug/L		99	68 - 125
Tetrachloroethene	<0.37		50.0	55.8		ug/L		112	70 - 125
Toluene	<0.15		50.0	51.7		ug/L		103	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	50.9		ug/L		102	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	48.0		ug/L		96	70 - 125
1,2,3-Trichlorobenzene	<0.46		50.0	41.7		ug/L		83	58 - 135
1,2,4-Trichlorobenzene	<0.34		50.0	43.4		ug/L		87	64 - 126
1,1,1-Trichloroethane	<0.38		50.0	50.7		ug/L		101	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	52.4		ug/L		105	70 - 125
Trichloroethene	<0.16		50.0	53.3		ug/L		107	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: 500-123596-20 MS

Matrix: Water

Analysis Batch: 371514

Client Sample ID: GP-9

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	<0.43		50.0	47.8		ug/L		96	60 - 126
1,2,3-Trichloropropane	<0.41		50.0	44.5		ug/L		89	63 - 125
1,2,4-Trimethylbenzene	<0.36		50.0	52.4		ug/L		105	70 - 125
1,3,5-Trimethylbenzene	<0.25		50.0	52.2		ug/L		104	70 - 125
Vinyl chloride	<0.20		50.0	45.0		ug/L		90	70 - 126
Xylenes, Total	<0.22		100	103		ug/L		103	70 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		71 - 127
4-Bromofluorobenzene (Surr)	94		71 - 120
Dibromofluoromethane	98		70 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-123596-20 MSD

Matrix: Water

Analysis Batch: 371514

Client Sample ID: GP-9

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.15		50.0	50.6		ug/L		101	70 - 125	1	20
Bromobenzene	<0.36		50.0	56.1		ug/L		112	70 - 125	3	20
Bromochloromethane	<0.43		50.0	53.2		ug/L		106	70 - 125	1	20
Bromodichloromethane	<0.37		50.0	50.1		ug/L		100	70 - 125	1	20
Bromoform	<0.48		50.0	57.5		ug/L		115	54 - 128	2	20
Bromomethane	<0.80		50.0	43.2		ug/L		86	40 - 150	8	20
Carbon tetrachloride	<0.38		50.0	53.8		ug/L		108	70 - 125	0	20
Chlorobenzene	<0.39		50.0	54.7		ug/L		109	70 - 125	1	20
Chloroethane	<0.51		50.0	47.1		ug/L		94	60 - 139	1	20
Chloroform	<0.37		50.0	51.1		ug/L		102	70 - 125	1	20
Chloromethane	<0.32		50.0	50.0		ug/L		100	60 - 140	2	20
2-Chlorotoluene	<0.31		50.0	53.6		ug/L		107	69 - 125	2	20
4-Chlorotoluene	<0.35		50.0	51.5		ug/L		103	70 - 125	1	20
cis-1,2-Dichloroethene	<0.41		50.0	53.2		ug/L		106	70 - 125	2	20
cis-1,3-Dichloropropene	<0.42		50.0	50.2		ug/L		100	70 - 125	0	20
Dibromochloromethane	<0.49		50.0	54.8		ug/L		110	66 - 125	1	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.8		ug/L		82	51 - 125	1	20
1,2-Dibromoethane	<0.39		50.0	52.7		ug/L		105	70 - 125	0	20
Dibromomethane	<0.27		50.0	54.0		ug/L		108	70 - 125	2	20
1,2-Dichlorobenzene	<0.33		50.0	52.6		ug/L		105	70 - 125	1	20
1,3-Dichlorobenzene	<0.40		50.0	52.6		ug/L		105	70 - 125	0	20
1,4-Dichlorobenzene	<0.36		50.0	51.7		ug/L		103	70 - 125	1	20
Dichlorodifluoromethane	<0.67		50.0	29.3		ug/L		59	51 - 140	0	20
1,1-Dichloroethane	<0.41		50.0	50.6		ug/L		101	70 - 125	1	20
1,2-Dichloroethane	<0.39		50.0	52.0		ug/L		104	70 - 125	0	20
1,1-Dichloroethene	<0.39		50.0	50.2		ug/L		100	70 - 125	2	20
1,2-Dichloropropane	<0.43		50.0	53.5		ug/L		107	70 - 125	1	20
1,3-Dichloropropane	<0.36		50.0	53.7		ug/L		107	70 - 125	2	20
2,2-Dichloropropane	<0.44		50.0	43.7		ug/L		87	62 - 125	2	20
1,1-Dichloropropene	<0.30		50.0	50.6		ug/L		101	70 - 125	0	20

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: 500-123596-20 MSD

Matrix: Water

Analysis Batch: 371514

Client Sample ID: GP-9

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.18		50.0	53.6		ug/L		107	70 - 125	1	20
Hexachlorobutadiene	<0.45		50.0	53.8		ug/L		108	57 - 140	3	20
Isopropylbenzene	<0.39		50.0	55.8		ug/L		112	70 - 125	3	20
Methylene Chloride	<1.6		50.0	50.2		ug/L		100	68 - 125	1	20
Methyl tert-butyl ether	<0.39		50.0	41.8		ug/L		84	67 - 125	1	20
Naphthalene	<0.34		50.0	40.0		ug/L		80	50 - 136	6	20
n-Butylbenzene	<0.39		50.0	46.9		ug/L		94	70 - 125	5	20
N-Propylbenzene	<0.41		50.0	53.3		ug/L		107	70 - 125	0	20
p-Isopropyltoluene	<0.36		50.0	54.9		ug/L		110	70 - 125	3	20
sec-Butylbenzene	<0.40		50.0	53.2		ug/L		106	70 - 125	1	20
Styrene	<0.39		50.0	53.5		ug/L		107	70 - 125	0	20
tert-Butylbenzene	<0.40		50.0	52.0		ug/L		104	70 - 125	1	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	55.6		ug/L		111	68 - 125	2	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.7		ug/L		99	68 - 125	1	20
Tetrachloroethene	<0.37		50.0	56.3		ug/L		113	70 - 125	1	20
Toluene	<0.15		50.0	52.2		ug/L		104	70 - 125	1	20
trans-1,2-Dichloroethene	<0.35		50.0	50.9		ug/L		102	70 - 125	0	20
trans-1,3-Dichloropropene	<0.36		50.0	49.1		ug/L		98	70 - 125	2	20
1,2,3-Trichlorobenzene	<0.46		50.0	42.0		ug/L		84	58 - 135	1	20
1,2,4-Trichlorobenzene	<0.34		50.0	41.4		ug/L		83	64 - 126	5	20
1,1,1-Trichloroethane	<0.38		50.0	51.1		ug/L		102	70 - 125	1	20
1,1,2-Trichloroethane	<0.35		50.0	53.1		ug/L		106	70 - 125	1	20
Trichloroethene	<0.16		50.0	54.1		ug/L		108	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	49.2		ug/L		98	60 - 126	3	20
1,2,3-Trichloropropane	<0.41		50.0	46.0		ug/L		92	63 - 125	3	20
1,2,4-Trimethylbenzene	<0.36		50.0	52.8		ug/L		106	70 - 125	1	20
1,3,5-Trimethylbenzene	<0.25		50.0	52.9		ug/L		106	70 - 125	1	20
Vinyl chloride	<0.20		50.0	45.4		ug/L		91	70 - 126	1	20
Xylenes, Total	<0.22		100	103		ug/L		103	70 - 125	0	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	96		71 - 127
4-Bromofluorobenzene (Surr)	96		71 - 120
Dibromofluoromethane	99		70 - 120
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: MB 500-371515/6

Matrix: Solid

Analysis Batch: 371515

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			02/10/17 10:03	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			02/10/17 10:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			02/10/17 10:03	1
Bromoform	<0.48		1.0	0.48	ug/Kg			02/10/17 10:03	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			02/10/17 10:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-371515/6
Matrix: Solid
Analysis Batch: 371515

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			02/10/17 10:03	1
Chloroform	<0.37		2.0	0.37	ug/Kg			02/10/17 10:03	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			02/10/17 10:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			02/10/17 10:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			02/10/17 10:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			02/10/17 10:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			02/10/17 10:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			02/10/17 10:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			02/10/17 10:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			02/10/17 10:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			02/10/17 10:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			02/10/17 10:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			02/10/17 10:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			02/10/17 10:03	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			02/10/17 10:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			02/10/17 10:03	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			02/10/17 10:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			02/10/17 10:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			02/10/17 10:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
Styrene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			02/10/17 10:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			02/10/17 10:03	1
Toluene	<0.15		0.25	0.15	ug/Kg			02/10/17 10:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			02/10/17 10:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			02/10/17 10:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			02/10/17 10:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			02/10/17 10:03	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			02/10/17 10:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			02/10/17 10:03	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-371515/6
Matrix: Solid
Analysis Batch: 371515

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-Trichloropropane	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			02/10/17 10:03	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			02/10/17 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		71 - 127		02/10/17 10:03	1
4-Bromofluorobenzene (Surr)	94		71 - 120		02/10/17 10:03	1
Dibromofluoromethane	101		70 - 120		02/10/17 10:03	1
Toluene-d8 (Surr)	99		75 - 120		02/10/17 10:03	1

Lab Sample ID: LCS 500-371515/4
Matrix: Solid
Analysis Batch: 371515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.6		ug/Kg		99	70 - 125
Bromobenzene	50.0	53.4		ug/Kg		107	70 - 125
Bromochloromethane	50.0	51.4		ug/Kg		103	70 - 125
Bromodichloromethane	50.0	48.0		ug/Kg		96	70 - 125
Bromoform	50.0	54.5		ug/Kg		109	54 - 128
Bromomethane	50.0	41.2		ug/Kg		82	40 - 150
Carbon tetrachloride	50.0	53.0		ug/Kg		106	70 - 125
Chlorobenzene	50.0	53.4		ug/Kg		107	70 - 125
Chloroethane	50.0	43.6		ug/Kg		87	60 - 139
Chloroform	50.0	48.9		ug/Kg		98	70 - 125
Chloromethane	50.0	46.8		ug/Kg		94	60 - 140
2-Chlorotoluene	50.0	53.0		ug/Kg		106	69 - 125
4-Chlorotoluene	50.0	52.3		ug/Kg		105	70 - 125
cis-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	70 - 125
Dibromochloromethane	50.0	52.8		ug/Kg		106	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/Kg		79	51 - 125
1,2-Dibromoethane	50.0	51.1		ug/Kg		102	70 - 125
Dibromomethane	50.0	50.8		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 125
1,4-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 125
Dichlorodifluoromethane	50.0	27.9		ug/Kg		56	51 - 140
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
1,2-Dichloropropane	50.0	51.7		ug/Kg		103	70 - 125
1,3-Dichloropropane	50.0	52.4		ug/Kg		105	70 - 125
2,2-Dichloropropane	50.0	44.7		ug/Kg		89	62 - 125
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 125
Ethylbenzene	50.0	54.3		ug/Kg		109	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LCS 500-371515/4
Matrix: Solid
Analysis Batch: 371515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	59.5		ug/Kg		119	57 - 140
Isopropylbenzene	50.0	55.2		ug/Kg		110	70 - 125
Methylene Chloride	50.0	48.8		ug/Kg		98	68 - 125
Methyl tert-butyl ether	50.0	40.4		ug/Kg		81	67 - 125
Naphthalene	50.0	37.5		ug/Kg		75	50 - 136
n-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 125
N-Propylbenzene	50.0	54.9		ug/Kg		110	70 - 125
p-Isopropyltoluene	50.0	54.0		ug/Kg		108	70 - 125
sec-Butylbenzene	50.0	54.6		ug/Kg		109	70 - 125
Styrene	50.0	52.5		ug/Kg		105	70 - 125
tert-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 125
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	68 - 125
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	68 - 125
Tetrachloroethene	50.0	56.1		ug/Kg		112	70 - 125
Toluene	50.0	51.6		ug/Kg		103	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	70 - 125
1,2,3-Trichlorobenzene	50.0	42.2		ug/Kg		84	58 - 135
1,2,4-Trichlorobenzene	50.0	44.4		ug/Kg		89	64 - 126
1,1,1-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 125
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 125
Trichloroethene	50.0	52.9		ug/Kg		106	70 - 125
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	60 - 126
1,2,3-Trichloropropane	50.0	45.5		ug/Kg		91	63 - 125
1,2,4-Trimethylbenzene	50.0	53.1		ug/Kg		106	70 - 125
1,3,5-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 125
Vinyl chloride	50.0	42.8		ug/Kg		86	70 - 126
Xylenes, Total	100	103		ug/Kg		103	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		71 - 127
4-Bromofluorobenzene (Surr)	94		71 - 120
Dibromofluoromethane	96		70 - 120
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: MB 500-372077/6
Matrix: Water
Analysis Batch: 372077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/15/17 10:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/15/17 10:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/15/17 10:49	1
Bromoform	<0.48		1.0	0.48	ug/L			02/15/17 10:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/15/17 10:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/15/17 10:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-372077/6
Matrix: Water
Analysis Batch: 372077

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloroethane	<0.51		1.0	0.51	ug/L			02/15/17 10:49	1
Chloroform	<0.37		2.0	0.37	ug/L			02/15/17 10:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/15/17 10:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/15/17 10:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/15/17 10:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/15/17 10:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/15/17 10:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/15/17 10:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/15/17 10:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/15/17 10:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/15/17 10:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/15/17 10:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/15/17 10:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/15/17 10:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/15/17 10:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/15/17 10:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/15/17 10:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/15/17 10:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/15/17 10:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
Styrene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/15/17 10:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/15/17 10:49	1
Toluene	<0.15		0.50	0.15	ug/L			02/15/17 10:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/15/17 10:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/15/17 10:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/15/17 10:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/15/17 10:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/15/17 10:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/15/17 10:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/15/17 10:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: MB 500-372077/6
Matrix: Water
Analysis Batch: 372077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/15/17 10:49	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/15/17 10:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/15/17 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		71 - 127		02/15/17 10:49	1
4-Bromofluorobenzene (Surr)	100		71 - 120		02/15/17 10:49	1
Dibromofluoromethane	95		70 - 120		02/15/17 10:49	1
Toluene-d8 (Surr)	100		75 - 120		02/15/17 10:49	1

Lab Sample ID: LCS 500-372077/4
Matrix: Water
Analysis Batch: 372077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.2		ug/L		90	70 - 125
Bromobenzene	50.0	45.9		ug/L		92	70 - 125
Bromochloromethane	50.0	42.9		ug/L		86	70 - 125
Bromodichloromethane	50.0	44.8		ug/L		90	70 - 125
Bromoform	50.0	41.2		ug/L		82	54 - 128
Bromomethane	50.0	42.9		ug/L		86	40 - 150
Carbon tetrachloride	50.0	45.5		ug/L		91	70 - 125
Chlorobenzene	50.0	46.5		ug/L		93	70 - 125
Chloroethane	50.0	47.0		ug/L		94	60 - 139
Chloroform	50.0	46.4		ug/L		93	70 - 125
Chloromethane	50.0	41.8		ug/L		84	60 - 140
2-Chlorotoluene	50.0	47.5		ug/L		95	69 - 125
4-Chlorotoluene	50.0	47.9		ug/L		96	70 - 125
cis-1,2-Dichloroethene	50.0	43.7		ug/L		87	70 - 125
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 125
Dibromochloromethane	50.0	45.3		ug/L		91	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/L		86	51 - 125
1,2-Dibromoethane	50.0	47.9		ug/L		96	70 - 125
Dibromomethane	50.0	45.1		ug/L		90	70 - 125
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
1,3-Dichlorobenzene	50.0	47.0		ug/L		94	70 - 125
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 125
Dichlorodifluoromethane	50.0	31.6		ug/L		63	51 - 140
1,1-Dichloroethane	50.0	45.0		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	47.4		ug/L		95	70 - 125
1,1-Dichloroethene	50.0	44.5		ug/L		89	70 - 125
1,2-Dichloropropane	50.0	46.2		ug/L		92	70 - 125
1,3-Dichloropropane	50.0	47.6		ug/L		95	70 - 125
2,2-Dichloropropane	50.0	44.8		ug/L		90	62 - 125
1,1-Dichloropropene	50.0	46.8		ug/L		94	70 - 125
Ethylbenzene	50.0	49.2		ug/L		98	70 - 125
Hexachlorobutadiene	50.0	45.3		ug/L		91	57 - 140

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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

Lab Sample ID: LCS 500-372077/4

Matrix: Water

Analysis Batch: 372077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	48.3		ug/L		97	70 - 125
Methylene Chloride	50.0	44.0		ug/L		88	68 - 125
Methyl tert-butyl ether	50.0	45.6		ug/L		91	67 - 125
Naphthalene	50.0	42.1		ug/L		84	50 - 136
n-Butylbenzene	50.0	49.5		ug/L		99	70 - 125
N-Propylbenzene	50.0	49.0		ug/L		98	70 - 125
p-Isopropyltoluene	50.0	48.8		ug/L		98	70 - 125
sec-Butylbenzene	50.0	48.9		ug/L		98	70 - 125
Styrene	50.0	47.0		ug/L		94	70 - 125
tert-Butylbenzene	50.0	48.2		ug/L		96	70 - 125
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	68 - 125
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	68 - 125
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 125
Toluene	50.0	47.7		ug/L		95	70 - 125
trans-1,2-Dichloroethene	50.0	44.3		ug/L		89	70 - 125
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	70 - 125
1,2,3-Trichlorobenzene	50.0	41.5		ug/L		83	58 - 135
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	64 - 126
1,1,1-Trichloroethane	50.0	46.8		ug/L		94	70 - 125
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	70 - 125
Trichloroethene	50.0	45.4		ug/L		91	70 - 125
Trichlorofluoromethane	50.0	52.5		ug/L		105	60 - 126
1,2,3-Trichloropropane	50.0	44.2		ug/L		88	63 - 125
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	70 - 125
1,3,5-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 125
Vinyl chloride	50.0	47.1		ug/L		94	70 - 126
Xylenes, Total	100	95.8		ug/L		96	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		71 - 127
4-Bromofluorobenzene (Surr)	98		71 - 120
Dibromofluoromethane	94		70 - 120
Toluene-d8 (Surr)	101		75 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (0-2')
Date Collected: 02/06/17 08:50
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-7 (0-2')
Date Collected: 02/06/17 08:50
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 08:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 12:40	TCT	TAL CHI

Client Sample ID: GP-7 (5-7.5')
Date Collected: 02/06/17 08:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-7 (5-7.5')
Date Collected: 02/06/17 08:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 13:08	TCT	TAL CHI

Client Sample ID: GP-8 (2.5-5')
Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-8 (2.5-5')
Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 09:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 13:36	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-8 (5-7.5')

Date Collected: 02/06/17 09:45

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-8 (5-7.5')

Date Collected: 02/06/17 09:45

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-4

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 14:03	TCT	TAL CHI

Client Sample ID: GP-9 (2.5-5')

Date Collected: 02/06/17 10:35

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-9 (2.5-5')

Date Collected: 02/06/17 10:35

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-5

Matrix: Solid

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 14:31	TCT	TAL CHI

Client Sample ID: GP-9 (5-7.5')

Date Collected: 02/06/17 10:40

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-9 (5-7.5')

Date Collected: 02/06/17 10:40

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-6

Matrix: Solid

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 14:59	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10 (2.5-5')

Date Collected: 02/06/17 11:05

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-10 (2.5-5')

Date Collected: 02/06/17 11:05

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-7

Matrix: Solid

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 15:27	TCT	TAL CHI

Client Sample ID: GP-10 (5-7.5')

Date Collected: 02/06/17 11:10

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-10 (5-7.5')

Date Collected: 02/06/17 11:10

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-8

Matrix: Solid

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 15:55	TCT	TAL CHI

Client Sample ID: GP-11 (0-2.5')

Date Collected: 02/06/17 11:25

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-11 (0-2.5')

Date Collected: 02/06/17 11:25

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-9

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			371336	02/06/17 11:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 16:23	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11 (5-7.5')

Lab Sample ID: 500-123596-10

Date Collected: 02/06/17 11:30

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-11 (5-7.5')

Lab Sample ID: 500-123596-10

Date Collected: 02/06/17 11:30

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 16:50	TCT	TAL CHI

Client Sample ID: MW-1 (2.5-5')

Lab Sample ID: 500-123596-11

Date Collected: 02/06/17 10:00

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-1 (2.5-5')

Lab Sample ID: 500-123596-11

Date Collected: 02/06/17 10:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 17:18	TCT	TAL CHI

Client Sample ID: MW-1 (5-7.5')

Lab Sample ID: 500-123596-12

Date Collected: 02/06/17 10:05

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-1 (5-7.5')

Lab Sample ID: 500-123596-12

Date Collected: 02/06/17 10:05

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 17:46	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
 Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (2.5-5')

Lab Sample ID: 500-123596-13

Date Collected: 02/06/17 11:55

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-2 (2.5-5')

Lab Sample ID: 500-123596-13

Date Collected: 02/06/17 11:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 18:14	TCT	TAL CHI

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14

Date Collected: 02/06/17 12:00

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14

Date Collected: 02/06/17 12:00

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 18:42	TCT	TAL CHI

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15

Date Collected: 02/06/17 13:50

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15

Date Collected: 02/06/17 13:50

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 19:10	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Date Collected: 02/06/17 13:55

Matrix: Solid

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Date Collected: 02/06/17 13:55

Matrix: Solid

Date Received: 02/08/17 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			371336	02/06/17 13:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371515	02/10/17 16:06	TCT	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-123596-17

Date Collected: 02/06/17 00:00

Matrix: Water

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 16:34	TCT	TAL CHI

Client Sample ID: GP-7

Lab Sample ID: 500-123596-18

Date Collected: 02/06/17 10:10

Matrix: Water

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 17:02	TCT	TAL CHI

Client Sample ID: GP-8

Lab Sample ID: 500-123596-19

Date Collected: 02/06/17 10:15

Matrix: Water

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 17:30	TCT	TAL CHI

Client Sample ID: GP-9

Lab Sample ID: 500-123596-20

Date Collected: 02/06/17 12:55

Matrix: Water

Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 17:58	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10

Date Collected: 02/06/17 12:40

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	372077	02/15/17 13:57	PMF	TAL CHI

Client Sample ID: GP-11

Date Collected: 02/06/17 12:45

Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	372077	02/15/17 14:24	PMF	TAL CHI

Laboratory References:

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

Certification Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

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	08-31-17

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

- 1
- 2
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- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.534.5200



500-123596 COC

Report To (optional) _____ Bill To (optional) _____
 Contact: Robert Langdon Contact: _____
 Company: SCS Engineers Company: _____
 Address: 2830 Dairy Dr. Address: _____
 Address: Madison, WI 53718 Address: _____
 Phone: 608-211-7329 Phone: _____
 Fax: _____ Fax: _____
 E-Mail: rlangdon@scsengineers.com PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-123596
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 0.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
SCS Engineers		252116186		Meq/L		VOCs (82406)		8		Dry weight	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
Arctic Laundry + Cleaners											
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
Kenosha, WI		Sandie Fredrick									
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
Jaclyn De Bruyne		Sandie Fredrick									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
1		GP-7 (0-2')	2-6	850	2	S	X	X			
2		GP-7 (5-7.5')	2-6	855	2	S	X	X			
3		GP-8 (2.5-5')	2-6	940	2	S	X	X			
4		GP-8 (5-7.5')	2-6	945	2	S	X	X			
5		GP-9 (2.5-5')	2-6	1035	2	S	X	X			
6		GP-9 (5-7.5')	2-6	1040	2	S	X	X			
7		GP-10 (2.5-5')	2-6	1105	2	S	X	X			
8		GP-10 (5-7.5')	2-6	1110	2	S	X	X			
9		GP-11 (0-2.5')	2-6	1125	2	S	X	X			
10		GP-11 (5-7.5')	2-6	1130	2	S	X	X			

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days) Standard
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other ___
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>SCS Engineers</u> Date: <u>2-7-17</u> Time: <u>1030</u>	Received By: <u>[Signature]</u> Company: <u>SCS Engineers</u> Date: <u>2/8/17</u> Time: <u>1030</u>	Lab Courier: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Shipped: <u>[Signature]</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Robert Langdon Bill To (optional) _____
 Contact: SCS Engineers Company: _____
 Address: 2830 Dairy Drive Address: _____
 Address: Madison, WI 53718 Address: _____
 Phone: 608-216-7329 Phone: _____
 Fax: _____ Fax: _____
 E-Mail: r.langdon@scsengineers.com PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-123596
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		PO#/Reference#		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
SCS Engineers		25216186		MROH 8		VOCs (8260B)		Com		
Project Name		Lab Project #		Matrix		Dry Weight				
Arctic Laundry and Cleaners										
Project Location/State		Lab PM								Comments
Kenosha, WI		Sandie Fredrick								
Sampler										
Jaclyn DeBruyne										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
11		mw-1 (2.5-5')	2-6	1000	2 S		X	X		
12		mw-1 (5-7.5')	2-6	1005	2 S		X	X		
13		mw-2 (2.5-5')	2-6	1155	2 S		X	X		
14		mw-2 (5-7.5')	2-6	1200	2 S		X	X		
15		mw-3 (0-2.5')	2-6	1350	2 S		X	X		
16		mw-3 (5-7.5')	2-6	1355	2 S		X	X		
17		Trip blank	2-6		1 O		X			

Turnaround Time Required (Business Days) Standard
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>JM DGH</u>	Company <u>SCS Engineers</u>	Date <u>2-7-17</u>	Time <u>11:30</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CHE</u>	Date <u>2/8/17</u>	Time <u>1030</u>	Lab Courier _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____	Shipped <u>FedEx</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____	Hand Delivered _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipes
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Robert Langdon
 Company: SCS Engineers
 Address: 2830 Dairy Drive
Madison, WI 53718
 Address:
 Phone: 608-211-7329
 Fax:
 E-Mail: rlangdon@scsengineers.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123596
 Chain of Custody Number:
 Page _____ of _____
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Project Location/State		Lab Project #		Lab PM		VOCs (821005)		
Sampler		Lab Project #		Lab PM		Lab Project #				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Comments			
SCS Engineers		25216186		1		com				
Arctic laundry and Cleaners		Kenosha, WI								
Jaelyn DeBruyne		Sardie Fredrick								
18		GP-7	2-6	1010	3 W	X				
19		GP-8	2-6	1015	3 W	X				
20		GP-9	2-6	1255	3 W	X				Rec 1 broken
21		GP-10	2-6	1240	3 W	X				
22		GP-11	2-6	1245	3 W	X				

Turnaround Time Required (Business Days) Standard
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Jim Dym</u>	Company <u>SCS Engineers</u>	Date <u>2-7-17</u>	Time <u>1630</u>	Received By <u>Shawn...</u>	Company <u>SCS Engineers</u>	Date <u>2/8/17</u>	Time <u>1030</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
 Shipped FedEx
 Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-123596-1

Login Number: 123596

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	0.8
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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
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").	False	Refer to Job Narrative for details.
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: 500-124176-1

Client Project/Site: 5619 22nd Ave. Kenosha 25216186

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Robert Langdon



Authorized for release by:

3/3/2017 4:51:30 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through
TotalAccess

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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: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Job ID: 500-124176-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-124176-1

Comments

No additional comments.

Receipt

The samples were received on 2/22/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

GC/MS VOA

Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). The pH however, was outside the required criteria when verified by the laboratory: MW-1 (500-124176-1), MW-2 (500-124176-2), MW-2-FD (500-124176-3) and MW-3 (500-124176-4). The sample was analyzed within 7 days per EPA recommendation, therefore no further corrective action was needed.

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



Detection Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1

Lab Sample ID: 500-124176-1

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 500-124176-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	1.3		1.0	0.43	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2-FD

Lab Sample ID: 500-124176-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	1.2		1.0	0.43	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 500-124176-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.5		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-124176-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-124176-1	MW-1	Water	02/21/17 11:35	02/22/17 10:30
500-124176-2	MW-2	Water	02/21/17 11:45	02/22/17 10:30
500-124176-3	MW-2-FD	Water	02/21/17 11:50	02/22/17 10:30
500-124176-4	MW-3	Water	02/21/17 12:00	02/22/17 10:30
500-124176-5	Trip Blank	Water	02/21/17 00:00	02/22/17 10:30

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Client Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1
Date Collected: 02/21/17 11:35
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 16:15	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:15	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 16:15	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 16:15	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 16:15	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 16:15	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 16:15	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 16:15	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 16:15	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 16:15	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 16:15	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 16:15	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 16:15	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 16:15	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 16:15	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 16:15	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 16:15	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/28/17 16:15	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 16:15	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 16:15	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 16:15	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 16:15	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 16:15	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 16:15	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 16:15	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 16:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 16:15	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 16:15	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 16:15	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1

Date Collected: 02/21/17 11:35

Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 16:15	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 16:15	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 16:15	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 16:15	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 16:15	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:15	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 16:15	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 16:15	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		71 - 120					02/28/17 16:15	1
Dibromofluoromethane	95		70 - 120					02/28/17 16:15	1
1,2-Dichloroethane-d4 (Surr)	113		71 - 127					02/28/17 16:15	1
Toluene-d8 (Surr)	96		75 - 120					02/28/17 16:15	1

Client Sample ID: MW-2

Date Collected: 02/21/17 11:45

Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 16:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 16:40	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 16:40	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 16:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 16:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 16:40	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 16:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 16:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 16:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 16:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 16:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 16:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 16:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 16:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 16:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 16:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-2

Date Collected: 02/21/17 11:45

Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.3		1.0	0.43	ug/L			02/28/17 16:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 16:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 16:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 16:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 16:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 16:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 16:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 16:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 16:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 16:40	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 16:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 16:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 16:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 16:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 16:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 16:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 16:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:40	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 16:40	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 16:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120		02/28/17 16:40	1
Dibromofluoromethane	97		70 - 120		02/28/17 16:40	1
1,2-Dichloroethane-d4 (Surr)	111		71 - 127		02/28/17 16:40	1
Toluene-d8 (Surr)	96		75 - 120		02/28/17 16:40	1

Client Sample ID: MW-2-FD

Date Collected: 02/21/17 11:50

Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 17:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:05	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-2-FD

Lab Sample ID: 500-124176-3

Date Collected: 02/21/17 11:50

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 17:05	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 17:05	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 17:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 17:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 17:05	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 17:05	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 17:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 17:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 17:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 17:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 17:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 17:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 17:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 17:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 17:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
1,2-Dichloropropane	1.2		1.0	0.43	ug/L			02/28/17 17:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 17:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 17:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 17:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 17:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 17:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 17:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 17:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 17:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 17:05	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 17:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 17:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 17:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 17:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 17:05	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-2-FD

Lab Sample ID: 500-124176-3

Date Collected: 02/21/17 11:50

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 17:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 17:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:05	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 17:05	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 17:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120		02/28/17 17:05	1
Dibromofluoromethane	95		70 - 120		02/28/17 17:05	1
1,2-Dichloroethane-d4 (Surr)	116		71 - 127		02/28/17 17:05	1
Toluene-d8 (Surr)	96		75 - 120		02/28/17 17:05	1

Client Sample ID: MW-3

Lab Sample ID: 500-124176-4

Date Collected: 02/21/17 12:00

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 17:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 17:30	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 17:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 17:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 17:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 17:30	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 17:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 17:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 17:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 17:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 17:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 17:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 17:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 17:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 17:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 17:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/28/17 17:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 17:30	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-3
Date Collected: 02/21/17 12:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 17:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 17:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 17:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 17:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 17:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 17:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 17:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
Tetrachloroethene	1.5		1.0	0.37	ug/L			02/28/17 17:30	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 17:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 17:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 17:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 17:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 17:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 17:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 17:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 17:30	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 17:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		71 - 120		02/28/17 17:30	1
Dibromofluoromethane	96		70 - 120		02/28/17 17:30	1
1,2-Dichloroethane-d4 (Surr)	111		71 - 127		02/28/17 17:30	1
Toluene-d8 (Surr)	96		75 - 120		02/28/17 17:30	1

Client Sample ID: Trip Blank
Date Collected: 02/21/17 00:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/01/17 14:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/01/17 14:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/01/17 14:51	1
Bromoform	<0.48		1.0	0.48	ug/L			03/01/17 14:51	1
Bromomethane	<0.80		2.0	0.80	ug/L			03/01/17 14:51	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-124176-5

Date Collected: 02/21/17 00:00

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/01/17 14:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/01/17 14:51	1
Chloroform	<0.37		2.0	0.37	ug/L			03/01/17 14:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/01/17 14:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/01/17 14:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/01/17 14:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/01/17 14:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/01/17 14:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/01/17 14:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/01/17 14:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/01/17 14:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			03/01/17 14:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/01/17 14:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/01/17 14:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/01/17 14:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/01/17 14:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/01/17 14:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/01/17 14:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/01/17 14:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/01/17 14:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
Styrene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/01/17 14:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/01/17 14:51	1
Toluene	<0.15		0.50	0.15	ug/L			03/01/17 14:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/01/17 14:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/01/17 14:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/01/17 14:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/01/17 14:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/01/17 14:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/01/17 14:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/01/17 14:51	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-124176-5

Date Collected: 02/21/17 00:00

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/01/17 14:51	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			03/01/17 14:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/01/17 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		71 - 120		03/01/17 14:51	1
Dibromofluoromethane	95		70 - 120		03/01/17 14:51	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		03/01/17 14:51	1
Toluene-d8 (Surr)	104		75 - 120		03/01/17 14:51	1



Definitions/Glossary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

GC/MS VOA

Analysis Batch: 373770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-124176-1	MW-1	Total/NA	Water	8260B	
500-124176-2	MW-2	Total/NA	Water	8260B	
500-124176-3	MW-2-FD	Total/NA	Water	8260B	
500-124176-4	MW-3	Total/NA	Water	8260B	
MB 500-373770/6	Method Blank	Total/NA	Water	8260B	
LCS 500-373770/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 373942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-124176-5	Trip Blank	Total/NA	Water	8260B	
MB 500-373942/6	Method Blank	Total/NA	Water	8260B	
LCS 500-373942/15	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-124176-1	MW-1	100	95	113	96
500-124176-2	MW-2	99	97	111	96
500-124176-3	MW-2-FD	99	95	116	96
500-124176-4	MW-3	98	96	111	96
500-124176-5	Trip Blank	90	95	101	104
LCS 500-373770/4	Lab Control Sample	92	98	101	100
LCS 500-373942/15	Lab Control Sample	88	96	101	107
MB 500-373770/6	Method Blank	99	96	110	97
MB 500-373942/6	Method Blank	84	97	91	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Lab Sample ID: MB 500-373770/6

Matrix: Water

Analysis Batch: 373770

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 09:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 09:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 09:57	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 09:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 09:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 09:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 09:57	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 09:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 09:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 09:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 09:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 09:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 09:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 09:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 09:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 09:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 09:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/28/17 09:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 09:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 09:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 09:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 09:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 09:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 09:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 09:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 09:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 09:57	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 09:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 09:57	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Lab Sample ID: MB 500-373770/6
Matrix: Water
Analysis Batch: 373770

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	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 09:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 09:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 09:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 09:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 09:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 09:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 09:57	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 09:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 09:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120		02/28/17 09:57	1
Dibromofluoromethane	96		70 - 120		02/28/17 09:57	1
1,2-Dichloroethane-d4 (Surr)	110		71 - 127		02/28/17 09:57	1
Toluene-d8 (Surr)	97		75 - 120		02/28/17 09:57	1

Lab Sample ID: LCS 500-373770/4
Matrix: Water
Analysis Batch: 373770

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	42.4		ug/L		85	70 - 125
Bromobenzene	50.0	41.4		ug/L		83	70 - 125
Bromochloromethane	50.0	43.0		ug/L		86	70 - 125
Bromodichloromethane	50.0	40.6		ug/L		81	70 - 125
Bromoform	50.0	38.7		ug/L		77	54 - 128
Bromomethane	50.0	55.4		ug/L		111	40 - 150
Carbon tetrachloride	50.0	46.4		ug/L		93	70 - 125
Chlorobenzene	50.0	44.6		ug/L		89	70 - 125
Chloroethane	50.0	47.7		ug/L		95	60 - 139
Chloroform	50.0	43.2		ug/L		86	70 - 125
Chloromethane	50.0	44.2		ug/L		88	60 - 140
2-Chlorotoluene	50.0	41.9		ug/L		84	69 - 125
4-Chlorotoluene	50.0	42.6		ug/L		85	70 - 125
cis-1,2-Dichloroethene	50.0	42.0		ug/L		84	70 - 125
cis-1,3-Dichloropropene	50.0	42.2		ug/L		84	70 - 125
Dibromochloromethane	50.0	41.2		ug/L		82	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	35.9		ug/L		72	51 - 125
1,2-Dibromoethane	50.0	41.3		ug/L		83	70 - 125
Dibromomethane	50.0	41.8		ug/L		84	70 - 125
1,2-Dichlorobenzene	50.0	43.4		ug/L		87	70 - 125
1,3-Dichlorobenzene	50.0	43.5		ug/L		87	70 - 125
1,4-Dichlorobenzene	50.0	43.3		ug/L		87	70 - 125
Dichlorodifluoromethane	50.0	41.1		ug/L		82	51 - 140
1,1-Dichloroethane	50.0	43.8		ug/L		88	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Lab Sample ID: LCS 500-373770/4
Matrix: Water
Analysis Batch: 373770

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	45.2		ug/L		90	70 - 125
1,1-Dichloroethene	50.0	42.7		ug/L		85	70 - 125
1,2-Dichloropropane	50.0	42.5		ug/L		85	70 - 125
1,3-Dichloropropane	50.0	41.3		ug/L		83	70 - 125
2,2-Dichloropropane	50.0	46.0		ug/L		92	62 - 125
1,1-Dichloropropene	50.0	45.0		ug/L		90	70 - 125
Ethylbenzene	50.0	44.9		ug/L		90	70 - 125
Hexachlorobutadiene	50.0	50.5		ug/L		101	57 - 140
Isopropylbenzene	50.0	42.9		ug/L		86	70 - 125
Methylene Chloride	50.0	41.7		ug/L		83	68 - 125
Methyl tert-butyl ether	50.0	40.6		ug/L		81	67 - 125
Naphthalene	50.0	48.2		ug/L		96	50 - 136
n-Butylbenzene	50.0	46.2		ug/L		92	70 - 125
N-Propylbenzene	50.0	43.7		ug/L		87	70 - 125
p-Isopropyltoluene	50.0	45.5		ug/L		91	70 - 125
sec-Butylbenzene	50.0	44.8		ug/L		90	70 - 125
Styrene	50.0	44.3		ug/L		89	70 - 125
tert-Butylbenzene	50.0	44.5		ug/L		89	70 - 125
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/L		89	68 - 125
1,1,1,2,2-Tetrachloroethane	50.0	39.6		ug/L		79	68 - 125
Tetrachloroethene	50.0	46.3		ug/L		93	70 - 125
Toluene	50.0	44.8		ug/L		90	70 - 125
trans-1,2-Dichloroethene	50.0	42.2		ug/L		84	70 - 125
trans-1,3-Dichloropropene	50.0	40.6		ug/L		81	70 - 125
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	58 - 135
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	64 - 126
1,1,1-Trichloroethane	50.0	45.1		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	70 - 125
Trichloroethene	50.0	46.0		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	49.5		ug/L		99	60 - 126
1,2,3-Trichloropropane	50.0	37.9		ug/L		76	63 - 125
1,2,4-Trimethylbenzene	50.0	43.4		ug/L		87	70 - 125
1,3,5-Trimethylbenzene	50.0	43.8		ug/L		88	70 - 125
Vinyl chloride	50.0	49.6		ug/L		99	70 - 126
Xylenes, Total	100	89.4		ug/L		89	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		71 - 120
Dibromofluoromethane	98		70 - 120
1,2-Dichloroethane-d4 (Surr)	101		71 - 127
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: MB 500-373942/6
Matrix: Water
Analysis Batch: 373942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/01/17 10:26	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Lab Sample ID: MB 500-373942/6
Matrix: Water
Analysis Batch: 373942

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromobenzene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/01/17 10:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/01/17 10:26	1
Bromoform	<0.48		1.0	0.48	ug/L			03/01/17 10:26	1
Bromomethane	<0.80		2.0	0.80	ug/L			03/01/17 10:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/01/17 10:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/01/17 10:26	1
Chloroform	<0.37		2.0	0.37	ug/L			03/01/17 10:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/01/17 10:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/01/17 10:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/01/17 10:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/01/17 10:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/01/17 10:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/01/17 10:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/01/17 10:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/01/17 10:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			03/01/17 10:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/01/17 10:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/01/17 10:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/01/17 10:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/01/17 10:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/01/17 10:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/01/17 10:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/01/17 10:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/01/17 10:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
Styrene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/01/17 10:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/01/17 10:26	1
Toluene	<0.15		0.50	0.15	ug/L			03/01/17 10:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/01/17 10:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Lab Sample ID: MB 500-373942/6
Matrix: Water
Analysis Batch: 373942

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	<0.46		1.0	0.46	ug/L			03/01/17 10:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/01/17 10:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/01/17 10:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/01/17 10:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/01/17 10:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/01/17 10:26	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/01/17 10:26	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			03/01/17 10:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/01/17 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		71 - 120		03/01/17 10:26	1
Dibromofluoromethane	97		70 - 120		03/01/17 10:26	1
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		03/01/17 10:26	1
Toluene-d8 (Surr)	87		75 - 120		03/01/17 10:26	1

Lab Sample ID: LCS 500-373942/15
Matrix: Water
Analysis Batch: 373942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.9		ug/L		90	70 - 125
Bromobenzene	50.0	47.7		ug/L		95	70 - 125
Bromochloromethane	50.0	46.6		ug/L		93	70 - 125
Bromodichloromethane	50.0	44.2		ug/L		88	70 - 125
Bromoform	50.0	53.8		ug/L		108	54 - 128
Bromomethane	50.0	37.1		ug/L		74	40 - 150
Carbon tetrachloride	50.0	45.4		ug/L		91	70 - 125
Chlorobenzene	50.0	46.6		ug/L		93	70 - 125
Chloroethane	50.0	33.6		ug/L		67	60 - 139
Chloroform	50.0	37.1		ug/L		74	70 - 125
Chloromethane	50.0	38.8		ug/L		78	60 - 140
2-Chlorotoluene	50.0	46.3		ug/L		93	69 - 125
4-Chlorotoluene	50.0	45.4		ug/L		91	70 - 125
cis-1,2-Dichloroethene	50.0	39.6		ug/L		79	70 - 125
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 125
Dibromochloromethane	50.0	48.3		ug/L		97	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	34.9		ug/L		70	51 - 125
1,2-Dibromoethane	50.0	44.1		ug/L		88	70 - 125
Dibromomethane	50.0	44.5		ug/L		89	70 - 125
1,2-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 125
1,3-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
1,4-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
Dichlorodifluoromethane	50.0	28.9		ug/L		58	51 - 140
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 125
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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

Lab Sample ID: LCS 500-373942/15

Matrix: Water

Analysis Batch: 373942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	40.1		ug/L		80	70 - 125
1,2-Dichloropropane	50.0	45.3		ug/L		91	70 - 125
1,3-Dichloropropane	50.0	41.1		ug/L		82	70 - 125
2,2-Dichloropropane	50.0	32.2		ug/L		64	62 - 125
1,1-Dichloropropene	50.0	41.4		ug/L		83	70 - 125
Ethylbenzene	50.0	44.7		ug/L		89	70 - 125
Hexachlorobutadiene	50.0	45.1		ug/L		90	57 - 140
Isopropylbenzene	50.0	44.9		ug/L		90	70 - 125
Methylene Chloride	50.0	44.5		ug/L		89	68 - 125
Methyl tert-butyl ether	50.0	35.2		ug/L		70	67 - 125
Naphthalene	50.0	38.9		ug/L		78	50 - 136
n-Butylbenzene	50.0	38.6		ug/L		77	70 - 125
N-Propylbenzene	50.0	43.1		ug/L		86	70 - 125
p-Isopropyltoluene	50.0	44.8		ug/L		90	70 - 125
sec-Butylbenzene	50.0	42.4		ug/L		85	70 - 125
Styrene	50.0	45.1		ug/L		90	70 - 125
tert-Butylbenzene	50.0	43.7		ug/L		87	70 - 125
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	68 - 125
1,1,1,2,2-Tetrachloroethane	50.0	45.5		ug/L		91	68 - 125
Tetrachloroethene	50.0	50.6		ug/L		101	70 - 125
Toluene	50.0	47.9		ug/L		96	70 - 125
trans-1,2-Dichloroethene	50.0	45.2		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	70 - 125
1,2,3-Trichlorobenzene	50.0	40.3		ug/L		81	58 - 135
1,2,4-Trichlorobenzene	50.0	40.8		ug/L		82	64 - 126
1,1,1-Trichloroethane	50.0	44.9		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	70 - 125
Trichloroethene	50.0	48.1		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	36.4		ug/L		73	60 - 126
1,2,3-Trichloropropane	50.0	41.5		ug/L		83	63 - 125
1,2,4-Trimethylbenzene	50.0	43.1		ug/L		86	70 - 125
1,3,5-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 125
Vinyl chloride	50.0	46.9		ug/L		94	70 - 126
Xylenes, Total	100	80.7		ug/L		81	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		71 - 120
Dibromofluoromethane	96		70 - 120
1,2-Dichloroethane-d4 (Surr)	101		71 - 127
Toluene-d8 (Surr)	107		75 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1
Date Collected: 02/21/17 11:35
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 16:15	PMF	TAL CHI

Client Sample ID: MW-2
Date Collected: 02/21/17 11:45
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 16:40	PMF	TAL CHI

Client Sample ID: MW-2-FD
Date Collected: 02/21/17 11:50
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 17:05	PMF	TAL CHI

Client Sample ID: MW-3
Date Collected: 02/21/17 12:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 17:30	PMF	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 02/21/17 00:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373942	03/01/17 14:51	TCT	TAL CHI

Laboratory References:

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

Certification Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

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	08-31-17

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Chain of Custody Record

Lab Job #: 500-124176
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 49-79.5

(optional)

Report To: Rob Langden
 Contact: PLANTING
 Company: SCS Engineers
 Address: 2830 Bailey Drive
 Address: _____
 Phone: 608-216-7329
 Fax: _____
 E-Mail: PLANGDEN@SCSENGINEERS.COM

Lab ID	MS/MSD	Sample ID	Date	Time	Containers #	Matrix	Preservative	Parameter	Comments	Preservative Key
1		MW-1	2-21-17	11:35	3	W	1			
2		MW-2	↓	11:45	3	W				
3		MW-2 - PD	↓	11:50	3	W				
4		MW-3	↓	12:00	3	W				
5		TRIP BLANK			2	W				

Bill To

Contact: SCS Engineers
 Company: SCS Engineers
 Address: 2830 Bailey Drive
 Address: _____
 Phone: _____
 Fax: _____

Report To: Rob Langden
 Contact: PLANTING
 Company: SCS Engineers
 Address: 2830 Bailey Drive
 Address: _____
 Phone: 608-216-7329
 Fax: _____
 E-Mail: PLANGDEN@SCSENGINEERS.COM

Client Project # 252110106
 Project Name 5019 22nd Ave. Kenosha
 Project Location/State WI
 Lab PM Nath Hams

Preservative Key

4110



500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

500-124176 COC

Turnaround Time Required (Business Days)
 1 Day _____ 2 Days _____ 5 Days _____ 10 Days _____ 15 Days _____ Other _____
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: Nath Hams SCS Company Date: 2/21/17 Time: _____
 Relinquished By: Chin Sang TACTE Company Date: 02/22/17 Time: 10:00

Received By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Lab Courier: _____
 Shipped: FX Priority
 Hand Delivered: _____

Client Comments: _____
 Lab Comments: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Page 26 of 27

13/3/2017 09

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-124176-1

Login Number: 124176

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

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	4.5
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 (excluding tests with immediate HTs)	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	

ATTACHMENT D

Vapor Sample Collection Logs

Vapor Assessment Sample Collection Log

PROJECT: 985619 22 nd Ave	SAMPLE ID: 5619 22 nd SS-TYPE (Circle One)*: <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
PROJECT #: 25216186	SAMPLE INTAKE HEIGHT: 10 ft NA for SB
LOCATION: Kenosha	APPROX PURGE VOLUME: ~1L NA for AI and AR
SAMPLER: N5H	APPROX SAMPLING DEPTH: 5' NA for AI and AR
Sub-Slab Sample Kit #: #2	NA for AI and AR
Sub-Slab Sample Manifold #: 2	NA for AI and AR
PID #: Mini Raepoh 3000	NA for AI and AR

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-7-17	1548	-29	39	89	W12	29.42	432.6
2-7-17	1618	-7	39	89	W13	29.43	—

Summa Canister Information:

Canister Size:	1L 6L
Canister ID#	PACE 1562
Flow Controller ID#	FC0832

Sub-Slab Water Dam Test:

Test Passed:	<input checked="" type="radio"/> Yes <input type="radio"/> No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

PROJECT: 5619 22 ND Ave	SAMPLE ID: 5619 22 ND Ave ^{SS-2} TYPE (Circle One): <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
PROJECT #: 25216186	SAMPLE INTAKE HEIGHT: N/A NA for SB
LOCATION: Kenosha	APPROX PURGE VOLUME: ~ 1L NA for AI and AR
SAMPLER: WJH	APPROX SAMPLING DEPTH: 3" NA for AI and AR
Sub-Slab Sample Kit #: 2	NA for AI and AR
Sub-Slab Sample Manifold #: 2	NA for AI and AR
PID #: Mini Rae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-7-17	16:35	-30	38	90	W14	29.44	154.0
	17:05	-8	38	91	W12	29.46	-

Summa Canister Information:

Canister Size:	1L <input checked="" type="radio"/> 6L
Canister ID#	PAE 0009
Flow Controller ID#	FC0719

Sub-Slab Water Dam Test:

Test Passed:	<input checked="" type="radio"/> Yes <input type="radio"/> No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

PROJECT: 5619 22 nd Ave	SAMPLE ID: 5619 22 nd SS-3 TYPE (Circle One)*: <u>SB</u> AI AR
PROJECT #: 25216186	SAMPLE INTAKE HEIGHT: N/A NA for SB
LOCATION: Kenosha	APPROX PURGE VOLUME: ~1L NA for AI and AR
SAMPLER: NJH	APPROX SAMPLING DEPTH: 3" NA for AI and AR
Sub-Slab Sample Kit #: 2	NA for AI and AR
Sub-Slab Sample Manifold #: 2	NA for AI and AR
PID #: Mini Rae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-7-17	17:21	28.5	38	90	W12	29.47	74.72
"	17:51	8	37	91	W13	29.48	-

Summa Canister Information:

Canister Size:	1L	<u>6L</u>
Canister ID#	PACE 0240	
Flow Controller ID#	FC1230	

Sub-Slab Water Dam Test:

Test Passed:	<u>Yes</u>	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

PROJECT: 5019 22 ND Ave	5019 22 ND Ave SAMPLE ID: Basement TYPE (Circle One)*: SB <input type="radio"/> AI <input checked="" type="radio"/> AR
PROJECT #: 25216/Bto	SAMPLE INTAKE HEIGHT: 3.5 NA for SB
LOCATION: Kenosha	APPROX PURGE VOLUME: NA for AI and AR
SAMPLER: N5H	APPROX SAMPLING DEPTH: NA for AI and AR
Sub-Slab Sample Kit #:	NA for AI and AR
Sub-Slab Sample Manifold #:	NA for AI and AR
PID #: MiniRae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	13:25	-29.5	39°	67	ESE 8	29.96	Ø
2-7-17	12:40	-2	38	98	W 6.5 N7	29.35	Ø

Summa Canister Information:

Canister Size:	1L 6L
Canister ID#	PACE 2105
Flow Controller ID#	FC0341

Sub-Slab Water Dam Test:

Test Passed:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

PROJECT: 5619 22 ND Ave	5619 22 ND Ave	SAMPLE ID: 1 st Floor	TYPE (Circle One)*: SB <input type="radio"/> AI <input checked="" type="radio"/> AR
PROJECT #: 25216106	SAMPLE INTAKE HEIGHT: 4'		NA for SB
LOCATION: 1 st Floor (Kensho)	APPROX PURGE VOLUME:		NA for AI and AR
SAMPLER: NJH	APPROX SAMPLING DEPTH:		NA for AI and AR
Sub-Slab Sample Kit #:			NA for AI and AR
Sub-Slab Sample Manifold #:			NA for AI and AR
PID #: Mini Rae 3000 ppb			

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	1348	-29.5	39	70	ESE 8	29.84	Ø
2-7-17	1222	-4	38	97	N 7	29.35	Ø

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	6L <input checked="" type="radio"/>
Canister ID#	PACE 2151	
Flow Controller ID#	FC 1024	

Test Passed:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

PROJECT: 5619 22nd Ave	SAMPLE ID: 2nd floor	TYPE (Circle One)*: SB (A) AR
PROJECT #: 25216186	SAMPLE INTAKE HEIGHT: 1'	NA for SB
LOCATION: 2nd Floor	APPROX PURGE VOLUME:	NA for AI and AR
SAMPLER: UTA	APPROX SAMPLING DEPTH:	NA for AI and AR
Sub-Slab Sample Kit #:		NA for AI and AR
Sub-Slab Sample Manifold #:		NA for AI and AR
PID #: mini Rae 3000ppb		

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	1430	-30	41	68	ESE8	29.82	0
2-7-17	1228	-6	38	97	W7	29.35	0

Summa Canister Information:

Canister Size:	1L (6L)
Canister ID#	Rae 2727
Flow Controller ID#	FL0526

Sub-Slab Water Dam Test:

Test Passed:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

PROJECT: 5619 22 nd Ave	5619 22 nd Ave - SAMPLE ID: Outdoor TYPE (Circle One)*: SB AI AR
PROJECT #: 25216186	SAMPLE INTAKE HEIGHT: 4' NA for SB
LOCATION: Outdoor (Kensington)	APPROX PURGE VOLUME: NA for AI and AR
SAMPLER: NSH	APPROX SAMPLING DEPTH: NA for AI and AR
Sub-Slab Sample Kit #:	NA for AI and AR
Sub-Slab Sample Manifold #:	NA for AI and AR
PID #: Mini Rae 3000pph	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
26-17	14:12	-28.5	41	65	SE 8	29.83	Ø
27-17	12:34	-2	38	97	N 7	29.35	Ø

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	PACE 2304	
Flow Controller ID#	FC0277	

Sub-Slab Water Dam Test:

Test Passed:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

ATTACHMENT E

Vapor Assessment Laboratory Reports

February 21, 2017

Rob Langdon
SCS Engineers
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 25216186 5619 22nd Ave. Kenosh

Pace Project No.: 10378651

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25216186 5619 22nd Ave. Kenosh

Pace Project No.: 10378651

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10378651001	5619 22nd Ave. Basement	Air	02/07/17 12:40	02/09/17 09:45
10378651002	5619 22nd Ave. 1st Floor	Air	02/07/17 12:22	02/09/17 09:45
10378651003	5619 22nd Ave. 2nd Floor	Air	02/07/17 12:28	02/09/17 09:45
10378651004	5619 22nd Ave. Outdoor	Air	02/07/17 12:34	02/09/17 09:45
10378651005	5619 22nd Ave. SS-1	Air	02/07/17 16:18	02/09/17 09:45
10378651006	5619 22nd Ave. SS-2	Air	02/07/17 17:05	02/09/17 09:45
10378651007	5619 22nd Ave. SS-3	Air	02/07/17 17:57	02/09/17 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25216186 5619 22nd Ave. Kenosh

Pace Project No.: 10378651

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10378651001	5619 22nd Ave. Basement	TO-15	EMC	5	PASI-M
10378651002	5619 22nd Ave. 1st Floor	TO-15	EMC	5	PASI-M
10378651003	5619 22nd Ave. 2nd Floor	TO-15	EMC	5	PASI-M
10378651004	5619 22nd Ave. Outdoor	TO-15	EMC	5	PASI-M
10378651005	5619 22nd Ave. SS-1	TO-15	EMC	5	PASI-M
10378651006	5619 22nd Ave. SS-2	TO-15	EMC	5	PASI-M
10378651007	5619 22nd Ave. SS-3	TO-15	EMC	5	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25216186 5619 22nd Ave. Kenosh

Pace Project No.: 10378651

Sample: 5619 22nd Ave. SS-1 Lab ID: 10378651005 Collected: 02/07/17 16:18 Received: 02/09/17 09:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	23.1	ug/m3	1.5	0.45	1.83		02/18/17 20:56	156-59-2	
trans-1,2-Dichloroethene	23.3	ug/m3	1.5	0.70	1.83		02/18/17 20:56	156-60-5	
Tetrachloroethene	2880000	ug/m3	12900	2600	9369.6		02/20/17 18:13	127-18-4	A3,E
Trichloroethene	7050	ug/m3	639	162	585.6		02/20/17 13:09	79-01-6	A3
Vinyl chloride	<0.36	ug/m3	0.48	0.36	1.83		02/18/17 20:56	75-01-4	

Sample: 5619 22nd Ave. SS-2 Lab ID: 10378651006 Collected: 02/07/17 17:05 Received: 02/09/17 09:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	6.9	ug/m3	1.4	0.41	1.68		02/18/17 21:26	156-59-2	
trans-1,2-Dichloroethene	47.6	ug/m3	1.4	0.65	1.68		02/18/17 21:26	156-60-5	
Tetrachloroethene	6710	ug/m3	46.3	9.3	33.6		02/20/17 12:15	127-18-4	
Trichloroethene	363	ug/m3	36.7	9.3	33.6		02/20/17 12:15	79-01-6	
Vinyl chloride	<0.33	ug/m3	0.44	0.33	1.68		02/18/17 21:26	75-01-4	

Sample: 5619 22nd Ave. SS-3 Lab ID: 10378651007 Collected: 02/07/17 17:57 Received: 02/09/17 09:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	5.5	ug/m3	1.5	0.45	1.83		02/18/17 21:55	156-59-2	
trans-1,2-Dichloroethene	2.0	ug/m3	1.5	0.70	1.83		02/18/17 21:55	156-60-5	
Tetrachloroethene	180000	ug/m3	1620	326	1171.2		02/20/17 17:46	127-18-4	A3
Trichloroethene	472	ug/m3	160	40.4	146.4		02/20/17 12:42	79-01-6	A3
Vinyl chloride	<0.36	ug/m3	0.48	0.36	1.83		02/18/17 21:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

QC Batch: 460708 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10378651001, 10378651002, 10378651003, 10378651004, 10378651005, 10378651006, 10378651007

METHOD BLANK: 2519802 Matrix: Air
Associated Lab Samples: 10378651001, 10378651002, 10378651003, 10378651004, 10378651005, 10378651006, 10378651007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	02/18/17 11:22	
Tetrachloroethene	ug/m3	<0.28	0.69	02/18/17 11:22	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	02/18/17 11:22	
Trichloroethene	ug/m3	<0.28	0.55	02/18/17 11:22	
Vinyl chloride	ug/m3	<0.20	0.26	02/18/17 11:22	

LABORATORY CONTROL SAMPLE: 2519803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	45.6	113	65-139	
Tetrachloroethene	ug/m3	68.9	83.9	122	60-142	
trans-1,2-Dichloroethene	ug/m3	40.3	45.1	112	67-137	
Trichloroethene	ug/m3	54.6	62.1	114	60-144	
Vinyl chloride	ug/m3	26	27.7	107	63-135	

SAMPLE DUPLICATE: 2520204

Parameter	Units	10379197001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.38		25	
Tetrachloroethene	ug/m3	8210	3450	82	25	E,R1
trans-1,2-Dichloroethene	ug/m3	ND	<0.60		25	
Trichloroethene	ug/m3	136	131	4	25	
Vinyl chloride	ug/m3	ND	<0.30		25	

SAMPLE DUPLICATE: 2520205

Parameter	Units	10379197003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.35		25	
Tetrachloroethene	ug/m3	187	175	6	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.55		25	
Trichloroethene	ug/m3	6.2	5.4	14	25	
Vinyl chloride	ug/m3	ND	<0.28		25	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 25216186 5619 22nd Ave. Kenosh

Pace Project No.: 10378651

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25216186 5619 22nd Ave. Kenosh

Pace Project No.: 10378651

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10378651001	5619 22nd Ave. Basement	TO-15	460708		
10378651002	5619 22nd Ave. 1st Floor	TO-15	460708		
10378651003	5619 22nd Ave. 2nd Floor	TO-15	460708		
10378651004	5619 22nd Ave. Outdoor	TO-15	460708		
10378651005	5619 22nd Ave. SS-1	TO-15	460708		
10378651006	5619 22nd Ave. SS-2	TO-15	460708		
10378651007	5619 22nd Ave. SS-3	TO-15	460708		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10378651

26698

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Program
Company: <u>SCS Engineers</u>	Report To: <u>Robert Langdon</u>	Attention:	<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act
Address: <u>2830 Dairy Drive</u>	Copy To:	Company Name:	<input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Email To: <u>R.Langdon@SCSEngineers.com</u>	Purchase Order No.:	Address:	Reporting Units
Phone: <u>608-216-7329</u> Fax:	Project Name: <u>5619 22nd Ave. Kenosha</u>	Pace Quote Reference:	ug/m ³ _____
Requested Due Date/TAT:	Project Number: <u>25216186</u>	Pace Project Manager/Sales Rep.:	PPMV <input checked="" type="checkbox"/> PPMV _____
		Pace Profile #:	Other _____
			Report Level II. ___ III. ___ IV. ___ Other _____

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:								Face Lab ID	
					COMPOSITE START END/GRAB		COMPOSITE -						PM10	3C Fixed Gas (%)	TO-3	TO-3M (Metals)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15		TO-15 Short List*
					DATE	TIME	DATE	TIME														
1	5619 22 ND Ave. Basement	6LC	6LC	2-6-17 1325	2-7-17 1240	29.5	-2	21050	0341									001				
2	5619 22 ND Ave. 1st Floor	6LC	6LC	2-6-17 1348	2-7-17 1222	29.5	-4	21511	1024									002				
3	5619 22 ND Ave. 2nd Floor	6LC	6LC	2-6-17 1430	2-7-17 1228	30	-6	27270	0526									003				
4	5619 22 ND Ave. Outdoor	6LC	6LC	2-6-17 1412	2-7-17 1334	28.5	-2	23440	0277									004				
5	5619 22 ND Ave SS-1	6LC	6LC	2-7-17 1548	2-7-17 1618	29	-7	15620	0832									005				
6	5619 22 ND Ave SS-2	6LC	6LC	2-7-17 1635	2-7-17 1705	30	-8	00290	0719									006				
7	5619 22 ND Ave SS-3	6LC	6LC	2-7-17 1721	2-7-17 1757	28.5	-8	02401	1230									007				
8																						
9																						
10																						
11																						
12																						

Comments: * PCB, TOB, cis ftrans 12DCB, and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<u>Robert Langdon (SCS)</u>	<u>2-8-17</u>	<u>10:30</u>	<u>[Signature]</u>	<u>2-9-17</u>	<u>0945</u>	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name: Robert Langdon
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 02/10/17

10 of 19
Page 10 of 11

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: SCS Eng. Project #: _____

WO#: 10378651



10378651

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 663750413429, 663750413430

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 151401163
 B88A0143310098 151401164

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 2/9/17

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout Date: 2/9/17

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



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 830-644-2130

Lab Project Number: 10378651
 Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651001 ProjSampleNum: 10378651001 Date Collected: 02/07/17 12:40
 Client Sample ID: 5619 22nd Ave. Basement Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
TO-15							
cis-1,2-Dichloroethene	5	ppbv	0.32	0.094	02/18/17 18:58	EMC 156-59-2	
Tetrachloroethene	5.6	ppbv	0.16	0.062	02/18/17 18:58	EMC 127-18-4	
trans-1,2-Dichloroethene	<0.15	ppbv	0.32	0.15	02/18/17 18:58	EMC 156-60-5	
Trichloroethene	1	ppbv	0.16	0.079	02/18/17 18:58	EMC 79-01-6	
Vinyl chloride	<0.12	ppbv	0.15	0.12	02/18/17 18:58	EMC 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



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Minneapolis, MN 55414
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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651002 ProjSampleNum: 10378651002 Date Collected: 02/07/17 12:22
Client Sample ID: 5619 22nd Ave. 1st Floor Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
TO-15							
cis-1,2-Dichloroethene	1.2	ppbv	0.32	0.099	02/18/17 19:27 EMC	156-59-2	
Tetrachloroethene	1.3	ppbv	0.16	0.065	02/18/17 19:27 EMC	127-18-4	
trans-1,2-Dichloroethene	<0.15	ppbv	0.32	0.15	02/18/17 19:27 EMC	156-60-5	
Trichloroethene	0.31	ppbv	0.16	0.081	02/18/17 19:27 EMC	79-01-6	
Vinyl chloride	<0.12	ppbv	0.16	0.12	02/18/17 19:27 EMC	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



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 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 830-644-2130

Lab Project Number: 10378651
 Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651003 ProjSampleNum: 10378651003 Date Collected: 02/07/17 12:28
 Client Sample ID: 5619 22nd Ave. 2nd Floor Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
TO-15							
cis-1,2-Dichloroethene	0.84	ppbv	0.35	0.1	02/18/17 19:55	EMC 156-59-2	
Tetrachloroethene	1.1	ppbv	0.17	0.068	02/18/17 19:55	EMC 127-18-4	
trans-1,2-Dichloroethene	<0.16	ppbv	0.35	0.16	02/18/17 19:55	EMC 156-60-5	
Trichloroethene	0.22	ppbv	0.17	0.084	02/18/17 19:55	EMC 79-01-6	
Vinyl chloride	<0.13	ppbv	0.17	0.13	02/18/17 19:55	EMC 75-01-4	

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SUPPLEMENTAL REPORT

Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 830-644-2130

Lab Project Number: 10378651
 Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651004 ProjSampleNum: 10378651004 Date Collected: 02/07/17 12:34
 Client Sample ID: 5619 22nd Ave. Outdoor Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.092	ppbv	0.3	0.092	02/18/17 20:24	EMC 156-59-2	
Tetrachloroethene	1.8	ppbv	0.15	0.059	02/18/17 20:24	EMC 127-18-4	
trans-1,2-Dichloroethene	<0.14	ppbv	0.3	0.14	02/18/17 20:24	EMC 156-60-5	
Trichloroethene	<0.075	ppbv	0.15	0.075	02/18/17 20:24	EMC 79-01-6	
Vinyl chloride	<0.11	ppbv	0.15	0.11	02/18/17 20:24	EMC 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651005 ProjSampleNum: 10378651005 Date Collected: 02/07/17 16:18
Client Sample ID: 5619 22nd Ave. SS-1 Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	5.7	ppbv	0.37	0.11	02/18/17 20:56 EMC	156-59-2	
Tetrachloroethene	418000	ppbv	1870	377	02/20/17 18:13 EMC	127-18-4	A3, E
trans-1,2-Dichloroethene	5.8	ppbv	0.37	0.17	02/18/17 20:56 EMC	156-60-5	
Trichloroethene	1290	ppbv	117	29.7	02/20/17 13:09 EMC	79-01-6	A3
Vinyl chloride	<0.14	ppbv	0.18	0.14	02/18/17 20:56 EMC	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 830-644-2130

Lab Project Number: 10378651
 Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651006 ProjSampleNum: 10378651006 Date Collected: 02/07/17 17:05
 Client Sample ID: 5619 22nd Ave. SS-2 Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
TO-15							
cis-1,2-Dichloroethene	1.7	ppbv	0.35	0.1	02/18/17 21:26	EMC 156-59-2	
Tetrachloroethene	973	ppbv	6.7	1.3	02/20/17 12:15	EMC 127-18-4	
trans-1,2-Dichloroethene	11.8	ppbv	0.35	0.16	02/18/17 21:26	EMC 156-60-5	
Trichloroethene	66.5	ppbv	6.7	1.7	02/20/17 12:15	EMC 79-01-6	
Vinyl chloride	<0.13	ppbv	0.17	0.13	02/18/17 21:26	EMC 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



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 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 830-644-2130

Lab Project Number: 10378651
 Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651007 ProjSampleNum: 10378651007 Date Collected: 02/07/17 17:57
 Client Sample ID: 5619 22nd Ave. SS-3 Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	ppbv	0.37	0.11	02/18/17 21:55 EMC	156-59-2	
Tetrachloroethene	26100	ppbv	235	47.3	02/20/17 17:46 EMC	127-18-4	A3
trans-1,2-Dichloroethene	0.5	ppbv	0.37	0.17	02/18/17 21:55 EMC	156-60-5	
Trichloroethene	86.4	ppbv	29.3	7.4	02/20/17 12:42 EMC	79-01-6	A3
Vinyl chloride	<0.14	ppbv	0.18	0.14	02/18/17 21:55 EMC	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[A3] The sample was analyzed by serial dilution.

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

SUPPLEMENTAL REPORT

Units Conversion Request

Date: 2/21/2017

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ATTACHMENT F

Photos of Sump

**Photos of Sump, Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, WI
February 7, 2017
SCS Engineers Project #25216186.00**



Photo 1: Looking east at sump



Photo 2: Looking east at sump pump piping in rafters

**Photos of Sump, Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, WI
February 7, 2017
SCS Engineers Project #25216186.00**



Photo 3: Looking northwest at sump pump piping



Photo 4: View inside sump

**Photos of Sump, Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, WI
February 7, 2017
SCS Engineers Project #25216186.00**



Photo 5: Sump pump piping at east end of building



Photo 6: Sump pump discharge point outside east end of building