

January 2, 2019
File No. 25217027.01

Ms. Jennifer Dorman
Wisconsin Department of Natural Resources
2300 N Dr. Martin Luther King Dr.
Milwaukee, WI 53212-3128

Subject: Groundwater Sampling Results
Highland Plaza, 8530-8600 W. Brown Deer Rd., Milwaukee
BRRS No. 02-41-579065

Dear Ms. Dorman:

On behalf of RJR ML, LLC (RJR), we have enclosed groundwater sampling results for the above-noted Highland Plaza case. The groundwater samples were collected on December 11, 2018. We notified RJR of the results on January 2, 2019.

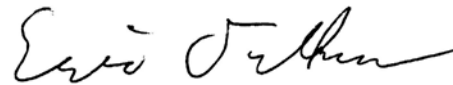
The sample results are consistent with prior sampling results. There were no NR 140 enforcement standard exceedances. Tetrachloroethylene (PCE) was detected in the MW2 sample at a concentration in excess of the NR 140 preventive action limit.

There do not appear to be other affected owners or tenants. The dry cleaner unit and neighboring units are currently vacant.

Sincerely,



Robert Langdon
Senior Project Manager
SCS Engineers



Eric Oelkers, PG
Senior Project Manager/Hydrogeologist
SCS Engineers

REL/lmh/EO

cc: Binyoti Amungwafor, WDNR (email)
Symeon Davis, RJR ML, LLC (email)

Encl. Table 2 – Groundwater Analytical Results Summary
Figure 2 – Site Plan
TestAmerica Laboratory Report dated December 26, 2018

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Table 2. Groundwater Analytical Results Summary
Highland Plaza, Milwaukee, WI / SCS Engineers Project #25217027.01
 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Vinyl Chloride	Other VOCs	
MW-2	6/12/2017	(1)	<0.41	<0.35	<u>0.69</u> J	<0.16	<0.20	ND	
	9/4/2018	--	<0.41	<0.35	<u>1.1</u>	<0.16	<0.20	ND	
	12/11/2018	(2)	<0.41	<0.35	<u>0.52</u> J	<0.16	<0.20	ND	
MW-3	6/12/2017	(1)	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
	9/4/2018	--	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
	9/4/2018 (Dup)	--	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
	12/11/2018	(2)	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
MW-4	6/12/2017	(1)	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
	9/4/2018	--	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
	12/11/2018	(2)	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
Trip Blank	6/12/2017	(1)	<0.41	<0.35	<0.37	<0.16	<0.20	Toluene	0.38 J
	9/4/2018	--	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
	12/11/2018	(2)	<0.41	<0.35	<0.37	<0.16	<0.20	ND	
NR 140 Enforcement Standards			70	100	5	5	0.2	Toluene	800
NR 140 Preventive Action Limits			7	20	0.5	0.5	0.02	Toluene	160

Abbreviations:

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

ND = None Detected

DUP = Duplicate Sample

Notes:

NR 140 Enforcement Standards - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2017.

NR 140 Preventive Action Limits - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2017.

Bold+underlined values meet or exceed NR 140 enforcement standards.

Italic+underlined values meet or exceed NR 140 preventive action limits.

Laboratory Notes/Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

(1) Naphthalene - LCS or LCSD is outside acceptance limits.

(2) Chloroethane - LCS or LCSD is outside acceptance limits.

Created by: JSN

Date: 6/19/2017

Last revision by: AJR

Date: 12/27/2018

Checked by: JSN

Date: 12/27/2018

I:\25217027.01\Correspondence\190102_Dorman_GW Results_Letter\[Table 2 Groundwater VOCs.xlsx.xls]GW VOCs

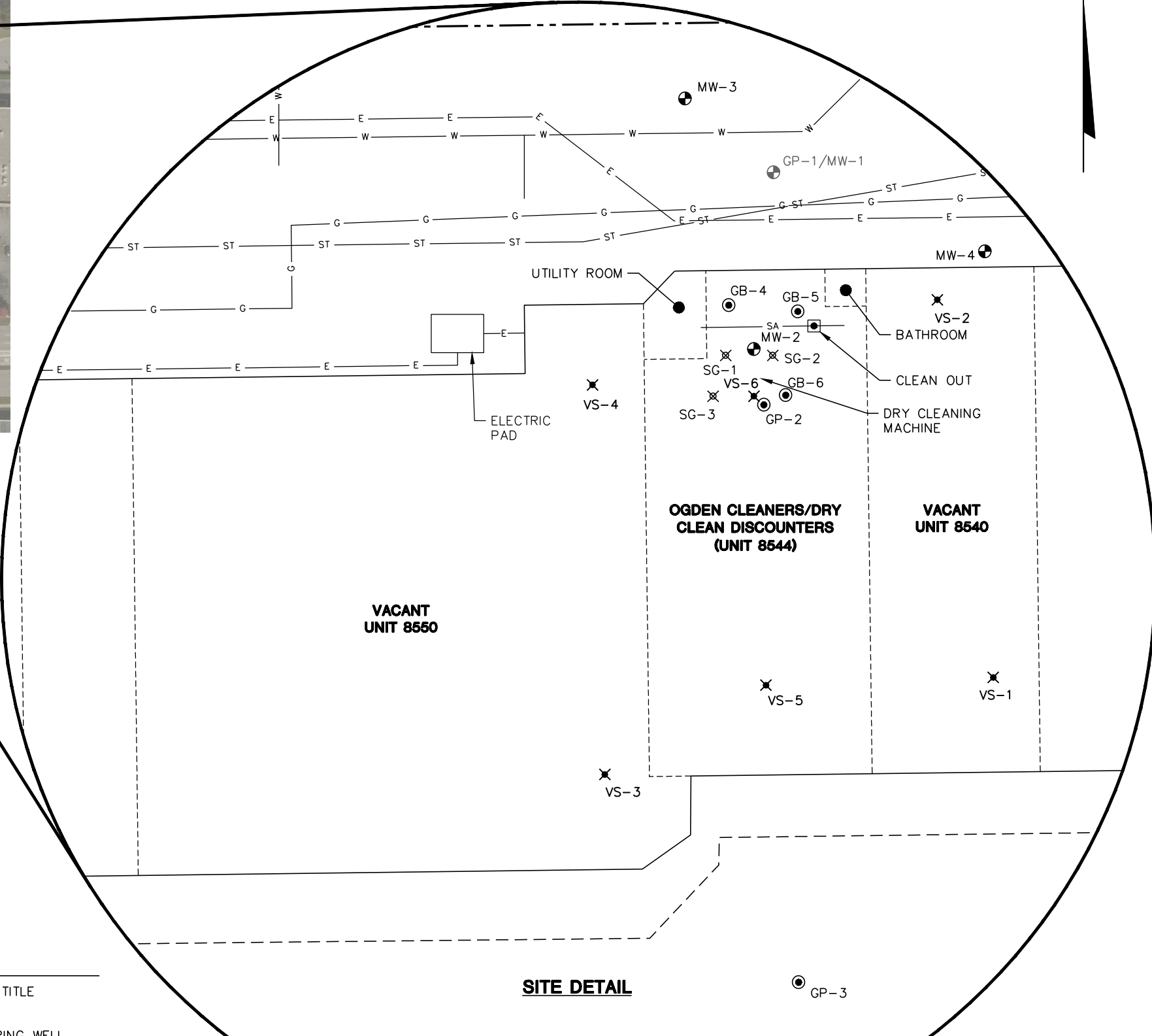


200 0 200 **SITE OVERVIEW**
SCALE: 1" = 200'

- LEGEND
- — — — — PROPERTY LINE
 - — — — — BUILDING OVERHANG
 - - - - - INTERIOR BUILDING UNIT DIVISION
 - E — BURIED ELECTRIC
 - G — GAS MAIN
 - SA — SANITARY SEWER
 - ST — STORM SEWER
 - W — WATER
 - ✕ SUB-SLAB VAPOR PROBE (INSTALLED BY SCS ENGINEERS, JANUARY 2017)
 - ✕ SUB-SLAB VAPOR PROBE (INSTALLED BY EDI CONSULTANTS, OCTOBER 2016)
 - SOIL BORING
 - ⊕ MONITORING WELL
 - ⊕ ABANDONED MONITORING WELL

NOTES:

1. PROPERTY LINE AND BUILDING LOCATIONS ARE APPROXIMATE, BASED ON ALTA/ACSM LAND TITLE SURVEY BY NATIONAL SURVEY & ENGINEERING, DATED JUNE 5, 2006.
2. INTERIOR BUILDING DIVISIONS ARE APPROXIMATE, BASED ON FIGURE 1, BORING AND MONITORING WELL LOCATION MAP PREPARED BY EPS ENVIRONMENTAL SERVICES, CHICAGO, IL, DATED FEBRUARY 24, 2014.
3. SUB-SLAB VAPOR PROBE LOCATIONS ARE APPROXIMATE.
4. SOIL BORING AND MONITORING WELL LOCATIONS ARE APPROXIMATE. GP-1/MW-1, GP-2, AND GP-3 BORING LOCATIONS BASED ON BORING AND MONITORING WELL LOCATION MAP PREPARED BY EPS ENVIRONMENTAL SERVICES, INC., FEBRUARY 24, 2014.
5. UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR LOCATING PURPOSES.



20 0 20 **SITE DETAIL**
SCALE: 1" = 20'



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CLIENT RJR ML LLC 1180 SOUTH BEVERLY DRIVE, SUITE 700 LOS ANGELES, CA 90035 (424) 284-7784	PROJECT NO.	25217027.01	ENGINEER	FIGURE	2
	DRAWN BY:	02/09/17	ENGINEER	SCS ENGINEERS	
SITE	CHECKED BY:	06/22/17	ENGINEER	2830 DAIRY DRIVE MADISON, WI 53718-6751	
HIGHLAND PLAZA 8600 WEST BROWN DEER ROAD MILWAUKEE, WISCONSIN	DRAWN BY:	REL	ENGINEER	PHONE: (608) 224-2830	
	CHECKED BY:	REL	ENGINEER		
	APPROVED BY:	REL	ENGINEER		
	DATE:	07/25/17	ENGINEER		

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: 500-156144-1

Client Project/Site: Ogden Cleaners - 25217027.01

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Robert Langdon



Authorized for release by:

12/26/2018 1:10:18 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

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

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

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

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Case Narrative

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Job ID: 500-156144-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-156144-1**

Comments

No additional comments.

Receipt

The samples were received on 12/13/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

The laboratory control sample (LCS) for 465845 recovered outside control limits for the following analytes:1,1,2-Trichloethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The following sample was 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: MW3 (500-156144-2).

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: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW4

Lab Sample ID: 500-156144-1

No Detections.

Client Sample ID: MW3

Lab Sample ID: 500-156144-2

No Detections.

Client Sample ID: MW2

Lab Sample ID: 500-156144-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.52	J	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-156144-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	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: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-156144-1	MW4	Water	12/11/18 13:50	12/13/18 09:15
500-156144-2	MW3	Water	12/11/18 14:00	12/13/18 09:15
500-156144-3	MW2	Water	12/11/18 14:20	12/13/18 09:15
500-156144-4	Trip Blank	Water	12/11/18 00:00	12/13/18 09:15

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Client Sample Results

Client: SCS Engineers
 Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW4
Date Collected: 12/11/18 13:50
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-1
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			12/21/18 16:31	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/21/18 16:31	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/21/18 16:31	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/21/18 16:31	1
Bromoform	<0.48		1.0	0.48	ug/L			12/21/18 16:31	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/21/18 16:31	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/21/18 16:31	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			12/21/18 16:31	1
Chloroform	<0.37		2.0	0.37	ug/L			12/21/18 16:31	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/21/18 16:31	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/21/18 16:31	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/21/18 16:31	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/21/18 16:31	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/21/18 16:31	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/21/18 16:31	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/21/18 16:31	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/21/18 16:31	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/21/18 16:31	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/21/18 16:31	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/21/18 16:31	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/21/18 16:31	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/21/18 16:31	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/21/18 16:31	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/21/18 16:31	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/21/18 16:31	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/21/18 16:31	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/21/18 16:31	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/21/18 16:31	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/21/18 16:31	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/21/18 16:31	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/21/18 16:31	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/21/18 16:31	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/21/18 16:31	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 16:31	1
Styrene	<0.39		1.0	0.39	ug/L			12/21/18 16:31	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 16:31	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/21/18 16:31	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/21/18 16:31	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/21/18 16:31	1
Toluene	<0.15		0.50	0.15	ug/L			12/21/18 16:31	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/21/18 16:31	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/21/18 16:31	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW4
Date Collected: 12/11/18 13:50
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-1
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			12/21/18 16:31	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/21/18 16:31	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/21/18 16:31	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/21/18 16:31	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/21/18 16:31	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/21/18 16:31	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/21/18 16:31	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/21/18 16:31	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/21/18 16:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/21/18 16:31	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/21/18 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124					12/21/18 16:31	1
Dibromofluoromethane	91		75 - 120					12/21/18 16:31	1
1,2-Dichloroethane-d4 (Surr)	90		75 - 126					12/21/18 16:31	1
Toluene-d8 (Surr)	100		75 - 120					12/21/18 16:31	1

Client Sample ID: MW3
Date Collected: 12/11/18 14:00
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-2
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			12/21/18 16:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/21/18 16:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/21/18 16:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/21/18 16:57	1
Bromoform	<0.48		1.0	0.48	ug/L			12/21/18 16:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/21/18 16:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/21/18 16:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			12/21/18 16:57	1
Chloroform	<0.37		2.0	0.37	ug/L			12/21/18 16:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/21/18 16:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/21/18 16:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/21/18 16:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/21/18 16:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/21/18 16:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/21/18 16:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/21/18 16:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/21/18 16:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/21/18 16:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/21/18 16:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/21/18 16:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/21/18 16:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/21/18 16:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW3
Date Collected: 12/11/18 14:00
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/21/18 16:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/21/18 16:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/21/18 16:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/21/18 16:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/21/18 16:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/21/18 16:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/21/18 16:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/21/18 16:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/21/18 16:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/21/18 16:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/21/18 16:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 16:57	1
Styrene	<0.39		1.0	0.39	ug/L			12/21/18 16:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 16:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/21/18 16:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/21/18 16:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/21/18 16:57	1
Toluene	<0.15		0.50	0.15	ug/L			12/21/18 16:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/21/18 16:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/21/18 16:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/21/18 16:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/21/18 16:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/21/18 16:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/21/18 16:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/21/18 16:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/21/18 16:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/21/18 16:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/21/18 16:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/21/18 16:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/21/18 16:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/21/18 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124		12/21/18 16:57	1
Dibromofluoromethane	91		75 - 120		12/21/18 16:57	1
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		12/21/18 16:57	1
Toluene-d8 (Surr)	99		75 - 120		12/21/18 16:57	1

Client Sample ID: MW2
Date Collected: 12/11/18 14:20
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-3
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			12/21/18 17:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/21/18 17:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/21/18 17:22	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW2
Date Collected: 12/11/18 14:20
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-3
Matrix: Water

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			12/21/18 17:22	1
Bromoform	<0.48		1.0	0.48	ug/L			12/21/18 17:22	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/21/18 17:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/21/18 17:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			12/21/18 17:22	1
Chloroform	<0.37		2.0	0.37	ug/L			12/21/18 17:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/21/18 17:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/21/18 17:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/21/18 17:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/21/18 17:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/21/18 17:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/21/18 17:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/21/18 17:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/21/18 17:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/21/18 17:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/21/18 17:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/21/18 17:22	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/21/18 17:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/21/18 17:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/21/18 17:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/21/18 17:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/21/18 17:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/21/18 17:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/21/18 17:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/21/18 17:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/21/18 17:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/21/18 17:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/21/18 17:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/21/18 17:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/21/18 17:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 17:22	1
Styrene	<0.39		1.0	0.39	ug/L			12/21/18 17:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 17:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/21/18 17:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/21/18 17:22	1
Tetrachloroethene	0.52 J		1.0	0.37	ug/L			12/21/18 17:22	1
Toluene	<0.15		0.50	0.15	ug/L			12/21/18 17:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/21/18 17:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/21/18 17:22	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/21/18 17:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/21/18 17:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/21/18 17:22	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW2
Date Collected: 12/11/18 14:20
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/21/18 17:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/21/18 17:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/21/18 17:22	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/21/18 17:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/21/18 17:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/21/18 17:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/21/18 17:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/21/18 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124					12/21/18 17:22	1
Dibromofluoromethane	93		75 - 120					12/21/18 17:22	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126					12/21/18 17:22	1
Toluene-d8 (Surr)	99		75 - 120					12/21/18 17:22	1

Client Sample ID: Trip Blank
Date Collected: 12/11/18 00:00
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-4
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			12/21/18 17:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/21/18 17:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/21/18 17:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/21/18 17:48	1
Bromoform	<0.48		1.0	0.48	ug/L			12/21/18 17:48	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/21/18 17:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/21/18 17:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			12/21/18 17:48	1
Chloroform	<0.37		2.0	0.37	ug/L			12/21/18 17:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/21/18 17:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/21/18 17:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/21/18 17:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/21/18 17:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/21/18 17:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/21/18 17:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/21/18 17:48	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/21/18 17:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/21/18 17:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/21/18 17:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/21/18 17:48	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/21/18 17:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/21/18 17:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/21/18 17:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/21/18 17:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/21/18 17:48	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-156144-4

Date Collected: 12/11/18 00:00

Matrix: Water

Date Received: 12/13/18 09:15

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			12/21/18 17:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/21/18 17:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/21/18 17:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/21/18 17:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/21/18 17:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/21/18 17:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/21/18 17:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/21/18 17:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 17:48	1
Styrene	<0.39		1.0	0.39	ug/L			12/21/18 17:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 17:48	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/21/18 17:48	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/21/18 17:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/21/18 17:48	1
Toluene	<0.15		0.50	0.15	ug/L			12/21/18 17:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/21/18 17:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/21/18 17:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/21/18 17:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/21/18 17:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/21/18 17:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/21/18 17:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/21/18 17:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/21/18 17:48	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/21/18 17:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/21/18 17:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/21/18 17:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/21/18 17:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/21/18 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124		12/21/18 17:48	1
Dibromofluoromethane	93		75 - 120		12/21/18 17:48	1
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		12/21/18 17:48	1
Toluene-d8 (Surr)	98		75 - 120		12/21/18 17:48	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

GC/MS VOA

Analysis Batch: 465845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156144-1	MW4	Total/NA	Water	8260B	
500-156144-2	MW3	Total/NA	Water	8260B	
500-156144-3	MW2	Total/NA	Water	8260B	
500-156144-4	Trip Blank	Total/NA	Water	8260B	
MB 500-465845/6	Method Blank	Total/NA	Water	8260B	
LCS 500-465845/4	Lab Control Sample	Total/NA	Water	8260B	
500-156144-1 MS	MW4	Total/NA	Water	8260B	
500-156144-1 MSD	MW4	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-156144-1	MW4	89	91	90	100
500-156144-1 MS	MW4	93	97	90	99
500-156144-1 MSD	MW4	92	100	92	98
500-156144-2	MW3	88	91	90	99
500-156144-3	MW2	88	93	93	99
500-156144-4	Trip Blank	90	93	92	98
LCS 500-465845/4	Lab Control Sample	91	92	83	101
MB 500-465845/6	Method Blank	88	94	90	99

Surrogate Legend

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

QC Sample Results

Client: SCS Engineers
 Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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

Lab Sample ID: MB 500-465845/6

Matrix: Water

Analysis Batch: 465845

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			12/21/18 10:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/21/18 10:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/21/18 10:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/21/18 10:09	1
Bromoform	<0.48		1.0	0.48	ug/L			12/21/18 10:09	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/21/18 10:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/21/18 10:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/21/18 10:09	1
Chloroform	<0.37		2.0	0.37	ug/L			12/21/18 10:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/21/18 10:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/21/18 10:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/21/18 10:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/21/18 10:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/21/18 10:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/21/18 10:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/21/18 10:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/21/18 10:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/21/18 10:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/21/18 10:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/21/18 10:09	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/21/18 10:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/21/18 10:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/21/18 10:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/21/18 10:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/21/18 10:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/21/18 10:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/21/18 10:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/21/18 10:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/21/18 10:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/21/18 10:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/21/18 10:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/21/18 10:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/21/18 10:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 10:09	1
Styrene	<0.39		1.0	0.39	ug/L			12/21/18 10:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/21/18 10:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/21/18 10:09	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/21/18 10:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/21/18 10:09	1
Toluene	<0.15		0.50	0.15	ug/L			12/21/18 10:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/21/18 10:09	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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

Lab Sample ID: MB 500-465845/6
Matrix: Water
Analysis Batch: 465845

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			12/21/18 10:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/21/18 10:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/21/18 10:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/21/18 10:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/21/18 10:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/21/18 10:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/21/18 10:09	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/21/18 10:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/21/18 10:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/21/18 10:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/21/18 10:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/21/18 10:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124		12/21/18 10:09	1
Dibromofluoromethane	94		75 - 120		12/21/18 10:09	1
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		12/21/18 10:09	1
Toluene-d8 (Surr)	99		75 - 120		12/21/18 10:09	1

Lab Sample ID: LCS 500-465845/4
Matrix: Water
Analysis Batch: 465845

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	46.0		ug/L		92	70 - 120
Bromobenzene	50.0	46.7		ug/L		93	70 - 122
Bromochloromethane	50.0	43.8		ug/L		88	65 - 122
Bromodichloromethane	50.0	39.7		ug/L		79	69 - 120
Bromoform	50.0	37.7		ug/L		75	56 - 132
Bromomethane	50.0	49.8		ug/L		100	40 - 152
Carbon tetrachloride	50.0	46.0		ug/L		92	59 - 133
Chlorobenzene	50.0	46.4		ug/L		93	70 - 120
Chloroethane	50.0	73.5	*	ug/L		147	48 - 136
Chloroform	50.0	42.1		ug/L		84	70 - 120
Chloromethane	50.0	44.0		ug/L		88	56 - 152
2-Chlorotoluene	50.0	43.8		ug/L		88	70 - 125
4-Chlorotoluene	50.0	44.3		ug/L		89	68 - 124
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	70 - 125
cis-1,3-Dichloropropene	50.0	40.6		ug/L		81	64 - 127
Dibromochloromethane	50.0	39.7		ug/L		79	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	30.2		ug/L		60	56 - 123
1,2-Dibromoethane	50.0	42.8		ug/L		86	70 - 125
Dibromomethane	50.0	41.0		ug/L		82	70 - 120
1,2-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 125
1,3-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 125
1,4-Dichlorobenzene	50.0	45.8		ug/L		92	70 - 120
Dichlorodifluoromethane	50.0	45.0		ug/L		90	40 - 159
1,1-Dichloroethane	50.0	43.9		ug/L		88	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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

Lab Sample ID: LCS 500-465845/4
Matrix: Water
Analysis Batch: 465845

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	39.1		ug/L		78	68 - 127
1,1-Dichloroethene	50.0	51.1		ug/L		102	67 - 122
1,2-Dichloropropane	50.0	44.6		ug/L		89	67 - 130
1,3-Dichloropropane	50.0	43.0		ug/L		86	62 - 136
2,2-Dichloropropane	50.0	42.8		ug/L		86	58 - 139
1,1-Dichloropropene	50.0	48.3		ug/L		97	70 - 121
Ethylbenzene	50.0	46.1		ug/L		92	70 - 123
Hexachlorobutadiene	50.0	51.2		ug/L		102	51 - 150
Isopropylbenzene	50.0	46.2		ug/L		92	70 - 126
Methylene Chloride	50.0	42.5		ug/L		85	69 - 125
Methyl tert-butyl ether	50.0	37.2		ug/L		74	55 - 123
Naphthalene	50.0	39.4		ug/L		79	53 - 144
n-Butylbenzene	50.0	46.4		ug/L		93	68 - 125
N-Propylbenzene	50.0	46.8		ug/L		94	69 - 127
p-Isopropyltoluene	50.0	47.0		ug/L		94	70 - 125
sec-Butylbenzene	50.0	46.9		ug/L		94	70 - 123
Styrene	50.0	44.6		ug/L		89	70 - 120
tert-Butylbenzene	50.0	46.8		ug/L		94	70 - 121
1,1,1,2-Tetrachloroethane	50.0	41.8		ug/L		84	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	39.2		ug/L		78	62 - 140
Tetrachloroethene	50.0	52.7		ug/L		105	70 - 128
Toluene	50.0	45.0		ug/L		90	70 - 125
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 125
trans-1,3-Dichloropropene	50.0	39.9		ug/L		80	62 - 128
1,2,3-Trichlorobenzene	50.0	43.4		ug/L		87	51 - 145
1,2,4-Trichlorobenzene	50.0	45.0		ug/L		90	57 - 137
1,1,1-Trichloroethane	50.0	44.7		ug/L		89	70 - 125
1,1,2-Trichloroethane	50.0	42.4		ug/L		85	71 - 130
Trichloroethene	50.0	49.7		ug/L		99	70 - 125
Trichlorofluoromethane	50.0	49.7		ug/L		99	55 - 128
1,2,3-Trichloropropane	50.0	40.7		ug/L		81	50 - 133
1,2,4-Trimethylbenzene	50.0	44.2		ug/L		88	70 - 123
1,3,5-Trimethylbenzene	50.0	45.2		ug/L		90	70 - 123
Vinyl chloride	50.0	42.5		ug/L		85	64 - 126
Xylenes, Total	100	95.4		ug/L		95	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		72 - 124
Dibromofluoromethane	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-156144-1 MS
Matrix: Water
Analysis Batch: 465845

Client Sample ID: MW4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		2500	2290		ug/L		91	70 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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

Lab Sample ID: 500-156144-1 MS

Matrix: Water

Analysis Batch: 465845

Client Sample ID: MW4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<0.36		2500	2410		ug/L		96	70 - 122
Bromochloromethane	<0.43		2500	2320		ug/L		93	65 - 122
Bromodichloromethane	<0.37		2500	2060		ug/L		82	69 - 120
Bromoform	<0.48		2500	1910		ug/L		77	56 - 132
Bromomethane	<0.80		2500	2730		ug/L		109	40 - 152
Carbon tetrachloride	<0.38		2500	2040		ug/L		81	59 - 133
Chlorobenzene	<0.39		2500	2330		ug/L		93	70 - 120
Chloroethane	<0.51 *		2500	2990		ug/L		120	48 - 136
Chloroform	<0.37		2500	2150		ug/L		86	70 - 120
Chloromethane	<0.32		2500	2780		ug/L		111	56 - 152
2-Chlorotoluene	<0.31		2500	2180		ug/L		87	70 - 125
4-Chlorotoluene	<0.35		2500	2200		ug/L		88	68 - 124
cis-1,2-Dichloroethene	<0.41		2500	2260		ug/L		91	70 - 125
cis-1,3-Dichloropropene	<0.42		2500	2050		ug/L		82	64 - 127
Dibromochloromethane	<0.49		2500	2030		ug/L		81	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		2500	1530		ug/L		61	56 - 123
1,2-Dibromoethane	<0.39		2500	2290		ug/L		92	70 - 125
Dibromomethane	<0.27		2500	2200		ug/L		88	70 - 120
1,2-Dichlorobenzene	<0.33		2500	2310		ug/L		92	70 - 125
1,3-Dichlorobenzene	<0.40		2500	2290		ug/L		92	70 - 125
1,4-Dichlorobenzene	<0.36		2500	2300		ug/L		92	70 - 120
Dichlorodifluoromethane	<0.67		2500	2980		ug/L		119	40 - 159
1,1-Dichloroethane	<0.41		2500	2160		ug/L		87	70 - 125
1,2-Dichloroethane	<0.39		2500	2120		ug/L		85	68 - 127
1,1-Dichloroethene	<0.39		2500	2260		ug/L		90	67 - 122
1,2-Dichloropropane	<0.43		2500	2290		ug/L		92	67 - 130
1,3-Dichloropropane	<0.36		2500	2270		ug/L		91	62 - 136
2,2-Dichloropropane	<0.44		2500	1880		ug/L		75	58 - 139
1,1-Dichloropropene	<0.30		2500	2170		ug/L		87	70 - 121
Ethylbenzene	<0.18		2500	2180		ug/L		87	70 - 123
Hexachlorobutadiene	<0.45		2500	2320		ug/L		93	51 - 150
Isopropylbenzene	<0.39		2500	2200		ug/L		88	70 - 126
Methylene Chloride	<1.6		2500	2230		ug/L		89	69 - 125
Methyl tert-butyl ether	<0.39		2500	1990		ug/L		79	55 - 123
Naphthalene	<0.34		2500	2070		ug/L		83	53 - 144
n-Butylbenzene	<0.39		2500	2110		ug/L		84	68 - 125
N-Propylbenzene	<0.41		2500	2200		ug/L		88	69 - 127
p-Isopropyltoluene	<0.36		2500	2200		ug/L		88	70 - 125
sec-Butylbenzene	<0.40		2500	2190		ug/L		88	70 - 123
Styrene	<0.39		2500	2220		ug/L		89	70 - 120
tert-Butylbenzene	<0.40		2500	2230		ug/L		89	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		2500	2120		ug/L		85	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		2500	2130		ug/L		85	62 - 140
Tetrachloroethene	<0.37		2500	2350		ug/L		94	70 - 128
Toluene	<0.15		2500	2160		ug/L		87	70 - 125
trans-1,2-Dichloroethene	<0.35		2500	2270		ug/L		91	70 - 125
trans-1,3-Dichloropropene	<0.36		2500	2040		ug/L		81	62 - 128
1,2,3-Trichlorobenzene	<0.46		2500	2210		ug/L		88	51 - 145

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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

Lab Sample ID: 500-156144-1 MS

Matrix: Water

Analysis Batch: 465845

Client Sample ID: MW4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	<0.34		2500	2170		ug/L		87	57 - 137
1,1,1-Trichloroethane	<0.38		2500	2050		ug/L		82	70 - 125
1,1,2-Trichloroethane	<0.35		2500	2260		ug/L		90	71 - 130
Trichloroethene	<0.16		2500	2340		ug/L		94	70 - 125
Trichlorofluoromethane	<0.43		2500	2360		ug/L		94	55 - 128
1,2,3-Trichloropropane	<0.41		2500	2240		ug/L		90	50 - 133
1,2,4-Trimethylbenzene	<0.36		2500	2180		ug/L		87	70 - 123
1,3,5-Trimethylbenzene	<0.25		2500	2200		ug/L		88	70 - 123
Vinyl chloride	<0.20		2500	2320		ug/L		93	64 - 126
Xylenes, Total	<0.22		5000	4600		ug/L		92	70 - 125
		MS	MS						
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		72 - 124						
Dibromofluoromethane	97		75 - 120						
1,2-Dichloroethane-d4 (Surr)	90		75 - 126						
Toluene-d8 (Surr)	99		75 - 120						

Lab Sample ID: 500-156144-1 MSD

Matrix: Water

Analysis Batch: 465845

Client Sample ID: MW4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.15		2500	2300		ug/L		92	70 - 120	1	20
Bromobenzene	<0.36		2500	2390		ug/L		96	70 - 122	1	20
Bromochloromethane	<0.43		2500	2420		ug/L		97	65 - 122	4	20
Bromodichloromethane	<0.37		2500	2070		ug/L		83	69 - 120	0	20
Bromoform	<0.48		2500	1940		ug/L		78	56 - 132	2	20
Bromomethane	<0.80		2500	2930		ug/L		117	40 - 152	7	20
Carbon tetrachloride	<0.38		2500	2030		ug/L		81	59 - 133	0	20
Chlorobenzene	<0.39		2500	2310		ug/L		92	70 - 120	1	20
Chloroethane	<0.51 *		2500	2810		ug/L		113	48 - 136	6	20
Chloroform	<0.37		2500	2220		ug/L		89	70 - 120	3	20
Chloromethane	<0.32		2500	2990		ug/L		120	56 - 152	7	20
2-Chlorotoluene	<0.31		2500	2170		ug/L		87	70 - 125	0	20
4-Chlorotoluene	<0.35		2500	2170		ug/L		87	68 - 124	2	20
cis-1,2-Dichloroethene	<0.41		2500	2340		ug/L		94	70 - 125	3	20
cis-1,3-Dichloropropene	<0.42		2500	2070		ug/L		83	64 - 127	1	20
Dibromochloromethane	<0.49		2500	2060		ug/L		82	68 - 125	2	20
1,2-Dibromo-3-Chloropropane	<2.0		2500	1650		ug/L		66	56 - 123	8	20
1,2-Dibromoethane	<0.39		2500	2290		ug/L		92	70 - 125	0	20
Dibromomethane	<0.27		2500	2280		ug/L		91	70 - 120	3	20
1,2-Dichlorobenzene	<0.33		2500	2360		ug/L		94	70 - 125	2	20
1,3-Dichlorobenzene	<0.40		2500	2300		ug/L		92	70 - 125	0	20
1,4-Dichlorobenzene	<0.36		2500	2290		ug/L		92	70 - 120	1	20
Dichlorodifluoromethane	<0.67		2500	3480		ug/L		139	40 - 159	16	20
1,1-Dichloroethane	<0.41		2500	2220		ug/L		89	70 - 125	2	20
1,2-Dichloroethane	<0.39		2500	2190		ug/L		87	68 - 127	3	20
1,1-Dichloroethene	<0.39		2500	2280		ug/L		91	67 - 122	1	20

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

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

Lab Sample ID: 500-156144-1 MSD

Matrix: Water

Analysis Batch: 465845

Client Sample ID: MW4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	<0.43		2500	2350		ug/L		94	67 - 130	2	20
1,3-Dichloropropane	<0.36		2500	2300		ug/L		92	62 - 136	1	20
2,2-Dichloropropane	<0.44		2500	1910		ug/L		77	58 - 139	2	20
1,1-Dichloropropene	<0.30		2500	2150		ug/L		86	70 - 121	1	20
Ethylbenzene	<0.18		2500	2160		ug/L		86	70 - 123	1	20
Hexachlorobutadiene	<0.45		2500	2300		ug/L		92	51 - 150	1	20
Isopropylbenzene	<0.39		2500	2170		ug/L		87	70 - 126	1	20
Methylene Chloride	<1.6		2500	2310		ug/L		92	69 - 125	4	20
Methyl tert-butyl ether	<0.39		2500	2120		ug/L		85	55 - 123	7	20
Naphthalene	<0.34		2500	2250		ug/L		90	53 - 144	8	20
n-Butylbenzene	<0.39		2500	2070		ug/L		83	68 - 125	2	20
N-Propylbenzene	<0.41		2500	2140		ug/L		86	69 - 127	3	20
p-Isopropyltoluene	<0.36		2500	2160		ug/L		86	70 - 125	2	20
sec-Butylbenzene	<0.40		2500	2160		ug/L		86	70 - 123	1	20
Styrene	<0.39		2500	2180		ug/L		87	70 - 120	2	20
tert-Butylbenzene	<0.40		2500	2200		ug/L		88	70 - 121	1	20
1,1,1,2-Tetrachloroethane	<0.46		2500	2200		ug/L		88	70 - 125	4	20
1,1,1,2,2-Tetrachloroethane	<0.40		2500	2180		ug/L		87	62 - 140	2	20
Tetrachloroethene	<0.37		2500	2310		ug/L		92	70 - 128	2	20
Toluene	<0.15		2500	2150		ug/L		86	70 - 125	1	20
trans-1,2-Dichloroethene	<0.35		2500	2310		ug/L		92	70 - 125	2	20
trans-1,3-Dichloropropene	<0.36		2500	2030		ug/L		81	62 - 128	1	20
1,2,3-Trichlorobenzene	<0.46		2500	2360		ug/L		94	51 - 145	7	20
1,2,4-Trichlorobenzene	<0.34		2500	2240		ug/L		90	57 - 137	3	20
1,1,1-Trichloroethane	<0.38		2500	2070		ug/L		83	70 - 125	1	20
1,1,2-Trichloroethane	<0.35		2500	2290		ug/L		92	71 - 130	2	20
Trichloroethene	<0.16		2500	2340		ug/L		94	70 - 125	0	20
Trichlorofluoromethane	<0.43		2500	2460		ug/L		99	55 - 128	5	20
1,2,3-Trichloropropane	<0.41		2500	2250		ug/L		90	50 - 133	0	20
1,2,4-Trimethylbenzene	<0.36		2500	2180		ug/L		87	70 - 123	0	20
1,3,5-Trimethylbenzene	<0.25		2500	2180		ug/L		87	70 - 123	1	20
Vinyl chloride	<0.20		2500	2470		ug/L		99	64 - 126	6	20
Xylenes, Total	<0.22		5000	4610		ug/L		92	70 - 125	0	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	98		75 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Client Sample ID: MW4
Date Collected: 12/11/18 13:50
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465845	12/21/18 16:31	PMF	TAL CHI

Client Sample ID: MW3
Date Collected: 12/11/18 14:00
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465845	12/21/18 16:57	PMF	TAL CHI

Client Sample ID: MW2
Date Collected: 12/11/18 14:20
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465845	12/21/18 17:22	PMF	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 12/11/18 00:00
Date Received: 12/13/18 09:15

Lab Sample ID: 500-156144-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465845	12/21/18 17:48	PMF	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Ogden Cleaners - 25217027.01

TestAmerica Job ID: 500-156144-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534



500-156144 COC

Report To: Robert Langdon (optional)
Contact: _____
Company: SCS Engineers
Address: 2630 Dairy Dr
Address: Madison WI 53718
Phone: 608 267-7329
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-156144
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 34

Client		Client Project #		Preservative		Parameter		Comments		
<u>SCS Engineers</u>		<u>25217027.d</u>		<u>1</u>		<u>VOC</u>		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		Comments		
<u>Dyden Cleaners</u>		<u>Madison WI</u>				<u>Robert Langdon</u>				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
<u>1</u>		<u>MW4</u>	<u>12/11/18</u>	<u>1350</u>	<u>3</u>	<u>W</u>	<u>X</u>			
<u>2</u>		<u>MW3</u>	<u>↓</u>	<u>1400</u>	<u>3</u>	<u>↓</u>	<u>↓</u>			
<u>3</u>		<u>MW2</u>	<u>↓</u>	<u>1420</u>	<u>2</u>	<u>↓</u>	<u>↓</u>	<u>Analyze w/le w/ sediment</u>		
<u>4</u>		<u>Trip Blank</u>	<u>↓</u>	<u>-</u>	<u>1</u>	<u>↓</u>	<u>↓</u>			

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 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>Robert Langdon</u> Company: <u>SCS</u> Date: <u>12/12/18</u> Time: <u>9:30</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>12/13/18</u> Time: <u>0915</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 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

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-156144-1

Login Number: 156144

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	