State of Wisconsin DEPARTMENT OF NATURAL RESOURCES 2984 Shawano Avenue Green Bay WI 54313-6727

Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463

WISCONSIN **DEPT. OF NATURAL RESOURCES** TTY Access via relay - 711

September 1, 2020

CITY OF MANITOWOC ATTN: GREG MINIKEL 900 OUAY ST **MANITOWOC WI 54220**

Subject: Notification of Sewer Lateral Vapor Sampling Results

WI DOT – Susie's Restaurant (Former) – LGU - SL, 1020 S. 26th Street, Manitowoc, WI

BRRTS #: 02-36-000516

Dear Mr. Minikel:

Please find the attached results from the July 29, 2020 vapor sampling in five sewer manholes (MH 7-149, MH 7-150, MH 7-159, MH 7-162, and MH 7-179) located in the 24th Street, 25th Street, 26th Street, Marshall Street rights-of-way. The sewers were sampled as part of the investigation for the Susie's Restaurant (Former) – LGU -SL site. The samples were collected by SCS Engineers, a consultant hired by the Department of Natural Resources (DNR) for the work associated with the WI DOT – Susie's Restaurant (Former) – LGU – SL site. The samples collected were analyzed for the following chlorinated volatile organic compounds (CVOCs); cis-1,2dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and vinyl chloride.

Each of the five sewer vapor samples had detections of at least some of the above-mentioned CVOCs, but all detections were below the applicable Vapor Risk Screening Levels, which are the standards used to assess the severity of the vapor concentrations. These samples show that the sewers upgradient from the site are not currently significantly impacted by CVOCs, and there doesn't appear to be an upgradient source contributing to the sanitary sewer. Please refer to the attached laboratory analytical report and Table 4 Sanitary Sewer Vapor Analytical Results Summary for the results.

If you have any questions regarding the results or this letter, please contact me at (920) 510-9482 or by email at ColinR.Schmenk@Wisconsin.gov.

Sincerely,

Hydrogeologist

Remediation & Redevelopment Program

Wisconsin Department of Natural Resources

Report of Laboratory Analysis Att.

Table 4. Sanitary Sewer Vapor Analytical Results Summary

Greg Minikel, City of Manitowoc (gminikel@manitowoc.org) cc:



Table 4. Sanitary Sewer Vapor Analytical Results Summary Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00

(Results are in $\mu g/m^3$)

Sample	Location	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Other VOCs
CAS#			127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	
MH 7-139	Intersection S. 26th & Washington	12/3/2019	12.9	7.9	6.1	1.3 」	<0.25	NA
MH 7-142	Intersection S. 26th & Custer	12/3/2019	43.4	<u>74.0</u>	37.3	8.4	1.9	NA
MH 7-143	Intersection S. 25th & Washington	12/3/2019	<0.59	<0.47	<0.41	<0.53	<0.24	NA
MH 7-146	Median Between Custer and Calumet	12/3/2019	41.9	<0.49	<0.42	<0.55	<0.24	NA
MH 7-149	Intersection S. 26th & Marshall	12/3/2019	2.3	<u>371</u>	179	38.0	7.7	NA
		7/29/2020	3.9	51.7	44.6	7.9	0.87	NA
MH 7-150	Between of 1121 & 1122 S. 26th	7/29/2020	<0.52	2.9	1.3 J	0.34 J	<0.18	NA
MH 7-159	Intersection S. 25th & Marshall	7/29/2020	0.57 J	5.5	0.62 J	0.75 J	<0.17	NA
MH 7-162	Between 1122 & 1123 S. 25th	7/29/2020	1.2	<0.28	<0.26	<0.27	<0.16	NA
MH 7-179	Intersection S. 24th & Marshall	7/29/2020	1.8	0.58 J	<0.28	<0.29	<0.17	NA
Residential Sub-Slo	ab Vapor Risk Screening Level		1,400	70	NE	NE	57	
Small Commercia	l Sub-Slab Vapor Risk Screening Level		6,000	290	NE	NE	930	

Abbreviations:

 μ g/m³ = micrograms per cubic meter of air CAS # = Chemical Abstracts Service Number trans-1,2-DCE = trans-1,2-dichloroethylene cis-1,2-DCE = cis-1,2-dichloroethylene NE = No Established Vapor Risk Screening Level NA = Not Analyzed

Notes:

- 1. Samples were collected in 1-liter summa canisters over 5-minute period and analyzed using the US EPA TO-15 analytical method.
- 2. Indoor air Vapor Action Levels (VALs) and sub-slab Vapor Risk Screening Levels (VRSLs) from Wisconsin Department of Natural Resources (WDNR) WI Vapor Quick Look-Up Table, Based on November 2017 US EPA Regional Screening Levels.
- 3. **Bold+underlined** values meet or exceed residential sub-slab VRSLs.
- 4. **Bold+double underlined** values meet or exceed small commercial sub-slab VRSLs.

12/3/2019 and 7/29/2020 samples collected by SCS Engineers.

Laboratory Notes/Qualifiers:

J = Estimated concentration at or above the LOD and below the LOQ.

 Created by:
 LMH
 Date: 12/20/2019

 Last Rev by:
 LMH
 Date: 8/12/2020

 Checked by:
 JSN
 Date: 8/12/2020

 Proj Mgr QA/QC:
 REL
 Date: 8/20/2020

I:\25219179.00\Data and Calculations\Tables\[Table 1 - Groundwater Analytical Results Summary.xlsx|Revision History





August 07, 2020

Rob Langdon SCS Engineers 2830 Dairy Dr. Madison, WI 53718

RE: Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg

Kingh Heaphof

kirsten.hogberg@pacelabs.com

(612)607-1700 Project Manager

Enclosures







CERTIFICATIONS

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929

CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: 2-MN-01
Iowa Certification #: 868
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081

New York Certification #: 11647 North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244

New Jersey Certification #: MN002

Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C

Wyoming UST Certification #: via A2LA 2926.01

Wisconsin Certification #: 999407970



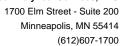


SAMPLE SUMMARY

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10526973001	MH 7-162	Air	07/29/20 11:06	07/31/20 11:00
10526973002	MH 7-150	Air	07/29/20 10:47	07/31/20 11:00
10526973003	MH 7-149	Air	07/29/20 11:30	07/31/20 11:00
10526973004	MH 7-179	Air	07/29/20 11:57	07/31/20 11:00
10526973005	MH 7-159	Air	07/29/20 12:21	07/31/20 11:00
10526973006	Unused Can #1084	Air	07/29/20 00:00	07/31/20 11:00





SAMPLE ANALYTE COUNT

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10526973001	MH 7-162	TO-15	MJL	5	PASI-M
10526973002	MH 7-150	TO-15	AFV	5	PASI-M
10526973003	MH 7-149	TO-15	AFV	5	PASI-M
10526973004	MH 7-179	TO-15	MJL	5	PASI-M
10526973005	MH 7-159	TO-15	MJL	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10526973001	MH 7-162					
TO-15	Tetrachloroethene	1.2	ug/m3	1.1	08/04/20 15:29	
10526973002	MH 7-150					
TO-15	cis-1,2-Dichloroethene	1.3J	ug/m3	1.5	08/04/20 05:30	
TO-15	trans-1,2-Dichloroethene	0.34J	ug/m3	1.5	08/04/20 05:30	
TO-15	Trichloroethene	2.9	ug/m3	1.0	08/04/20 05:30	
10526973003	MH 7-149					
TO-15	cis-1,2-Dichloroethene	44.6	ug/m3	1.4	08/04/20 06:05	
TO-15	trans-1,2-Dichloroethene	7.9	ug/m3	1.4	08/04/20 06:05	
TO-15	Tetrachloroethene	3.9	ug/m3	1.2	08/04/20 06:05	
TO-15	Trichloroethene	51.7	ug/m3	0.96	08/04/20 06:05	
TO-15	Vinyl chloride	0.87	ug/m3	0.46	08/04/20 06:05	
0526973004	MH 7-179					
TO-15	Tetrachloroethene	1.8	ug/m3	1.2	08/04/20 15:02	
TO-15	Trichloroethene	0.58J	ug/m3	0.93	08/04/20 15:02	
0526973005	MH 7-159					
TO-15	cis-1,2-Dichloroethene	0.62J	ug/m3	1.4	08/04/20 14:36	
TO-15	trans-1,2-Dichloroethene	0.75J	ug/m3	1.4	08/04/20 14:36	
TO-15	Tetrachloroethene	0.57J	ug/m3	1.2	08/04/20 14:36	
TO-15	Trichloroethene	5.5	ug/m3	0.92	08/04/20 14:36	

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ANALYTICAL RESULTS

Project: 25219179.00 Susie's Restaurant

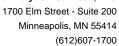
Pace Project No.: 10526973

Date: 08/07/2020 09:14 AM

Sample: MH 7-162	Lab ID:	10526973001	Collected	l: 07/29/2	0 11:06	Received: 07	7/31/20 11:00 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical N	Method: TO-15						•	
	Pace Analy	tical Services	- Minneapol	is					
cis-1,2-Dichloroethene	<0.26	ug/m3	1.3	0.26	1.61		08/04/20 15:29	156-59-2	
trans-1,2-Dichloroethene	<0.27	ug/m3	1.3	0.27	1.61		08/04/20 15:29		
Tetrachloroethene	1.2	ug/m3	1.1	0.46	1.61		08/04/20 15:29		
Trichloroethene	<0.28	ug/m3	0.88	0.28	1.61		08/04/20 15:29	79-01-6	
Vinyl chloride	<0.16	ug/m3	0.42	0.16	1.61		08/04/20 15:29	75-01-4	
Sample: MH 7-150	Lab ID: 1	10526973002	Collected	i: 07/29/2	0 10:47	Received: 07	7/31/20 11:00 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical N	Method: TO-15							
	Pace Analy	tical Services	- Minneapol	is					
cis-1,2-Dichloroethene	1.3J	ug/m3	1.5	0.29	1.83		08/04/20 05:30	156-50-2	
trans-1,2-Dichloroethene	0.34J	ug/m3	1.5	0.29	1.83		08/04/20 05:30		
Tetrachloroethene	<0.52	ug/m3	1.3	0.52	1.83		08/04/20 05:30		
Trichloroethene	2.9	ug/m3	1.0	0.32	1.83		08/04/20 05:30	_	
Vinyl chloride	<0.18	ug/m3	0.48	0.18	1.83		08/04/20 05:30		
Sample: MH 7-149	Lab ID: 1	10526973003	Collected	i: 07/29/2	0 11:30	Received: 07	7/31/20 11:00 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical M	Method: TO-15							
1013 MOV AIR	•	tical Services	- Minneapol	is					
cis-1,2-Dichloroethene	44.6	ug/m3	1.4	0.28	1.75		08/04/20 06:05	156-50-2	
trans-1,2-Dichloroethene	7.9	ug/m3	1.4	0.29	1.75		08/04/20 06:05		
Tetrachloroethene	3.9	ug/m3	1.2	0.50	1.75		08/04/20 06:05		
Trichloroethene	51.7	ug/m3	0.96	0.31	1.75		08/04/20 06:05		
Vinyl chloride	0.87	ug/m3	0.46	0.18	1.75		08/04/20 06:05	75-01-4	
Sample: MH 7-179	Lab ID: 1	10526973004	Collected	d: 07/29/2	0 11:57	Received: 07	7/31/20 11:00 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical N	Method: TO-15							
	Pace Analy	tical Services	- Minneapol	is					
		ug/m3	1.4	0.28	1.71		08/04/20 15:02	156-59-2	
cis-1,2-Dichloroethene	<0.28	ug/III3							
cis-1,2-Dichloroethene trans-1,2-Dichloroethene	<0.28 <0.29	ug/m3	1.4	0.29	1.71		08/04/20 15:02	156-60-5	
•		•					08/04/20 15:02 08/04/20 15:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Date: 08/07/2020 09:14 AM

Sample: MH 7-179	Lab ID:	10526973004	Collecte	d: 07/29/2	0 11:57	Received: 07/	/31/20 11:00 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
	Pace Anal	lytical Services	- Minneapo	olis					
Vinyl chloride	<0.17	ug/m3	0.44	0.17	1.71		08/04/20 15:02	75-01-4	
Sample: MH 7-159	Lab ID:	10526973005	Collecte	d: 07/29/2	0 12:21	Received: 07/	/31/20 11:00 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
	•	lytical Services		olis					
cis-1,2-Dichloroethene	0.62J	ug/m3	1.4	0.27	1.68		08/04/20 14:36	156-59-2	
trans-1,2-Dichloroethene	0.75J	ug/m3	1.4	0.28	1.68		08/04/20 14:36	156-60-5	
Tetrachloroethene	0.57J	ug/m3	1.2	0.48	1.68		08/04/20 14:36	127-18-4	
Trichloroethene	5.5	ug/m3	0.92	0.30	1.68		08/04/20 14:36	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.44	0.17	1.68		08/04/20 14:36	75-01-4	

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QUALITY CONTROL DATA

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Date: 08/07/2020 09:14 AM

QC Batch: 690501 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10526973002, 10526973003

METHOD BLANK: 3692220 Matrix: Air

Associated Lab Samples: 10526973002, 10526973003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	 ug/m3	<0.080	0.40	08/03/20 18:56	
Tetrachloroethene	ug/m3	<0.14	0.34	08/03/20 18:56	
trans-1,2-Dichloroethene	ug/m3	< 0.084	0.40	08/03/20 18:56	
Trichloroethene	ug/m3	<0.088	0.27	08/03/20 18:56	
Vinyl chloride	ug/m3	< 0.050	0.13	08/03/20 18:56	

LABORATORY CONTROL SAMPLE:	3692221					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.8	44.6	107	70-132	
Tetrachloroethene	ug/m3	74.9	72.2	96	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	43.5	104	70-132	
Trichloroethene	ug/m3	56.7	56.3	99	70-132	
Vinyl chloride	ug/m3	28.5	25.8	90	68-141	

SAMPLE DUPLICATE: 3692662		10526910001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3		<0.22		25	-
Tetrachloroethene	ug/m3	ND	0.43J		25	i
trans-1,2-Dichloroethene	ug/m3	ND	< 0.23		25	;
Trichloroethene	ug/m3	ND	< 0.24		25	
Vinyl chloride	ug/m3	ND	< 0.14		25	,

SAMPLE DUPLICATE: 3692663		10526979001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.22	<0.22		25	
Tetrachloroethene	ug/m3	1.3	1.3	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.23	< 0.23		25	
Trichloroethene	ug/m3	<0.24	< 0.24		25	
Vinyl chloride	ug/m3	< 0.14	< 0.14		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.

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QUALITY CONTROL DATA

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Date: 08/07/2020 09:14 AM

QC Batch: 690656 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level

> Pace Analytical Services - Minneapolis Laboratory:

Associated Lab Samples: 10526973001, 10526973004, 10526973005

METHOD BLANK: 3692784 Matrix: Air

Associated Lab Samples: 10526973001, 10526973004, 10526973005

_		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	< 0.080	0.40	08/04/20 08:54	
Tetrachloroethene	ug/m3	<0.14	0.34	08/04/20 08:54	
trans-1,2-Dichloroethene	ug/m3	0.090J	0.40	08/04/20 08:54	
Trichloroethene	ug/m3	<0.088	0.27	08/04/20 08:54	
Vinyl chloride	ug/m3	< 0.050	0.13	08/04/20 08:54	

LABORATORY CONTROL SAMPLE:	3692785					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	41.6	100	70-132	
Tetrachloroethene	ug/m3	71	66.5	94	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.2	102	70-132	
Trichloroethene	ug/m3	56.3	52.7	94	70-132	
Vinyl chloride	ug/m3	26.7	31.6	119	68-141	

SAMPLE DUPLICATE: 3693761			_			
		10526924003	Dup		Max	0 ""
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.34		25	
Tetrachloroethene	ug/m3	ND	< 0.61		25	
trans-1,2-Dichloroethene	ug/m3	ND	< 0.36		25	
Trichloroethene	ug/m3	ND	< 0.37		25	
Vinyl chloride	ug/m3	ND	<0.21		25	

		10527077003	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.27		25	
Tetrachloroethene	ug/m3	ND	< 0.48		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
Trichloroethene	ug/m3	ND	< 0.30		25	
Vinyl chloride	ug/m3	ND	< 0.17		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.



Minneapolis, MN 55414 (612)607-1700

QUALIFIERS

Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

Date: 08/07/2020 09:14 AM





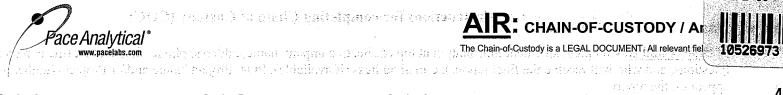
QUALITY CONTROL DATA CROSS REFERENCE TABLE

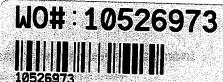
Project: 25219179.00 Susie's Restaurant

Pace Project No.: 10526973

Date: 08/07/2020 09:14 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10526973001	MH 7-162	TO-15	690656		
10526973002	MH 7-150	TO-15	690501		
10526973003	MH 7-149	TO-15	690501		
10526973004	MH 7-179	TO-15	690656		
10526973005	MH 7-159	TO-15	690656		





Section A Required Client Information:	Section B Required Project Inform	ation:		Section	C.				:	1		is ariga	. * * .	transiti	i ir	***	41	44	6	Page: 1	of	1
Company: SCS Engineers	Report To: Zahen	Pilas e lata ett	200	Attention:		ivati 🧸	an	. (as.d.	Plus Gray	2114£÷	J. M.	1711 j.		i.	- 18 V - 18 V - 18 V	14. 1	Pr	ogram			1.11/20	- #1.54 j 1 f = }
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Madisa, WI 53718	A ^{ATE} LEWICE FINANCE	135771	in la ma	Address:	12123663	ulio a f	1 11370					1253	-114	,17 ,17	Volu	ıntary C	lean Up	☐ Dry	Clean T	RCRA	T Ot	her
Email To: Ylang Jowe 505 Engineers in	Purchase Order No.:	>	,	Pace Quo	ote Referer	nce:			ē	401.03	get i	1.00	1:		Location	on of	- 1	W		Reporting	t ma/m³	
Phone: 6982173995 Fax: —	Project Name:	Ditair	m -	Pace Pro	ject Manag	er/Sales R	φ.							-	Sampl	ing by	State _	V 1/2		PPBV Nother	PPMV_	_
Requested Due Date/TAT: Toward	Project Number:	1917	700	Pace Pro	file#:	<u> 376</u>	<u>30</u>	10 (30)	1	1-Qu	1		hair		Report	Level	11	III	IV	Other	38	i vari
'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 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	G #	DMPOSITE STAR		teléfaékung	POSITE-	nister Pressure tial Field - in Hg)	Canister Pressure (Final Field - in Hg)	i Pilo	ımma Can mbei		Со	low ntrol mber	.670	Method	1/2	Montage	00 / 1/1/10 / 10 / 10 / 10 / 10 / 10 /	Port list Cho. Set	Tisk (ollier)		
		MEDIA PID R	DATE	TIME	DATE	VGRAS TIME	Canist (Initial	P E	10 fg.	s 2+11	/fv][]	·			/0/2 2/2				\$\\$\ \&\		Pące Lab	, ID
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2 MH 7-150		1 35		1017		lo-M	-29	10	30	e l'	7-	ì 🕽	56)				\		<u> </u>	200	
3 MH 7- 149		478		1125		1130	29	6	Zg	52	اے	7 5	3 3	7				\ <u>`</u>		0	03	
4 MH 7 -179	NH.	145	\vec{D}_{i}	1154	srii kuus	1157	25	5,5	21	2_	3	1 1	l	4				\\ \X		O	04	
5 MH 7-159	178V 159	13 B	V	1291	1	1221	29	5	26			しち		3				Y	-		15	
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10													-				 					
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12																						
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						1 \		7	/						<i>" </i> '	t						·

ace Analytical®

Document Name:

Sample Condition Upon Receipt (SCUR) - Air

Document No.:

Page 1 of 1

ENV-FRM-MIN4-0113 Rev.00

Pace Analytical Services -Minneapolis

Document Revised: 24Mar2020

Upon Receipt	Client Name		S	Pro	oject #:	MO#	:105	<u> 2697</u>	3	
Courier:	Fed Ex	□UPS □SpeeDee		mercial See Exc	eption	PM: KNH CLIENT:	SCS Engi	Due Date: Ineer	08/07/20)
Tracking Number:	1727	2544	3260	<u>7,32</u> 70[<u> </u>
Custody Seal on Coole	r/Box Present	? Yes	Μνο	Seals Intact?	Yes	No				
Packing Material:	Bubble Wrap	☐Bubble E	Bags ⊠Foa	am None	∐Tin	Can Othe	r:	Temp	Blank rec:]Yes ∭No
Temp. (TO17 and TO13 sa	mples only) (°C):	Corrected Te	mp (°C):		•	Thermom	eter Used:	☐G87A9170	
Temp should be above from	eezing to 6°C	Correction Fac	tor:	_	Da	te & Initials of P	erson Examinir	ng Contents:	G87A915	31/2 C
Type of ice Received]BlueWe	t 🖄 None	-					_	/CU · /	
		•						Comments:		
Chain of Custody Present	?		M	Yes 🔲 No		1.				
Chain of Custody Filled Ou	ıt?			Yes No		2.				
Chain of Custody Relinqui				Yes No		3.				F-1
Sampler Name and/or Sig		?		Yes No	□N/A	4.				
Samples Arrived within Ho				ves □No		5.				
Short Hold Time Analysis Rush Turn Around Time R	·			Yes ⊠No Yes ⊠No		6. 7.				
Sufficient Volume?				Yes □No		8.				***
Correct Containers Used?				<u> </u>						
(Tedlar bags not acce	ptable conta	iner for TO-1		r-i						
TO-15 or APH) -Pace Containers Used?	>		K)	Yes □No Yes □No		9.				
Containers Intact?	***************************************	*****	<u>. </u>							
(visual inspection/no	leaks when i	oressurized)	. IXI	res 🔲 No		10.				
Media: Air Can	Airbag	Filter		Passive			ividually Certif	ied Cans Y	N (list which	ch samples)
Is sufficient information a	vailable to reco	ncile samples t	to				,			ni sumpres)
the COC?		•	X 0	Yes □No		12.	*****			
Do cans need to be pressu										
(DO NOT PRESSURIZ	E 3C or AS1	M 1946!!!)		∕es □No		13.			 -	
		Gauge #] 10AIR26	☐ 10AIR34	l □10	DAIR35 □4	1097			
	Can	isters					Car	nisters		
Commin Number	Com ID	Flow	Initial	Final				Flow	Initial	Final
Sample Number	12.14	Controller 905	Pressure	Pressure	Sam	ple Number	Can ID	Controller	Pressure	Pressure
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149	3617	1561	~ X	Ч	-					
<u> </u>	2875	2837	- /	И						
179	2123	1114	-6,5	И	ļ					<u> </u>
159	2673	1593	-6	N						_
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										<u></u>
CLIENT NOTIFICATION/	RESOLUTION	•					Field Data	a Required?	Пуеs Пи	lo
					Date	e/Time:		-		-
Comments/Res									·····	

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Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10526973

Phone: 843.746.8525 Project Name: 25219179.00 Susie's Restaurant

 Lab Sample No:
 10526973001
 ProjSampleNum:
 10526973001
 Date Collected:
 07/29/20 11:06

 Client Sample ID:
 MH 7-162
 Matrix:
 Air
 Date Received:
 07/31/20 11:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
cis-1,2-Dichloroethene	< 0.065	ppbv	0.32	1.61	08/04/20 15:29 MJL	156-59-2	
Tetrachloroethene	0.17	ppbv	0.16	1.61	08/04/20 15:29 MJL	127-18-4	
trans-1,2-Dichloroethene	< 0.067	ppbv	0.32	1.61	08/04/20 15:29 MJL	156-60-5	
Trichloroethene	< 0.051	ppbv	0.16	1.61	08/04/20 15:29 MJL	79-01-6	
Vinyl chloride	< 0.062	ppbv	0.16	1.61	08/04/20 15:29 MJL	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.



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ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10526973

Phone: 843.746.8525 Project Name: 25219179.00 Susie's Restaurant

 Lab Sample No:
 10526973002
 ProjSampleNum:
 10526973002
 Date Collected:
 07/29/20 10:47

 Client Sample ID:
 MH 7-150
 Matrix:
 Air
 Date Received:
 07/31/20 11:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
cis-1.2-Dichloroethene	0.32J	ppbv	0.37	1.83	08/04/20 5:30 AFV	156-59-2	
Tetrachloroethene	< 0.075	ppbv	0.19	1.83	08/04/20 5:30 AFV	127-18-4	
trans-1,2-Dichloroethene	0.084J	ppbv	0.37	1.83	08/04/20 5:30 AFV	156-60-5	
Trichloroethene	0.53	ppbv	0.18	1.83	08/04/20 5:30 AFV	79-01-6	
Vinyl chloride	< 0.069	ppbv	0.18	1.83	08/04/20 5:30 AFV	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.



Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10526973

Phone: 843.746.8525 Project Name: 25219179.00 Susie's Restaurant

 Lab Sample No:
 10526973003
 ProjSampleNum:
 10526973003
 Date Collected:
 07/29/20 11:30

 Client Sample ID:
 MH 7-149
 Matrix:
 Air
 Date Received:
 07/31/20 11:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
cis-1,2-Dichloroethene	11.1	vdqq	0.35	1.75	08/04/20 6:05 AFV	156-59-2	
Tetrachloroethene	0.57	ppbv	0.17	1.75	08/04/20 6:05 AFV	127-18-4	
trans-1,2-Dichloroethene	2	ppbv	0.35	1.75	08/04/20 6:05 AFV	156-60-5	
Trichloroethene	9.5	ppbv	0.18	1.75	08/04/20 6:05 AFV	79-01-6	
Vinyl chloride	0.33	ppbv	0.18	1.75	08/04/20 6:05 AFV	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.



Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10526973

Phone: 843.746.8525 Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973004 ProjSampleNum: 10526973004 Date Collected: 07/29/20 11:57 Client Sample ID: MH 7-179 Matrix: Air Date Received: 07/31/20 11:00

Parameters Results Units Report Limit DF Analyzed CAS No. Qualifiers Air TO-15 <0.069 cis-1,2-Dichloroethene ppbv 0.35 1.71 08/04/20 15:02 MJL 156-59-2 Tetrachloroethene 0.26 ppbv 0.17 1.71 08/04/20 15:02 MJL 127-18-4 trans-1,2-Dichloroethene < 0.072 ppbv 0.35 1.71 08/04/20 15:02 MJL 156-60-5 Trichloroethene 0.11J ppbv 0.17 1.71 08/04/20 15:02 MJL 79-01-6 Vinyl chloride < 0.065 0.17 1.71 08/04/20 15:02 MJL 75-01-4 ppbv

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.



Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10526973

Phone: 843.746.8525 Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973005 ProjSampleNum: 10526973005 Date Collected: 07/29/20 12:21

Client Sample ID: MH 7-159 Matrix: Air Date Received: 07/31/20 11:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
cis-1,2-Dichloroethene	0.15J	ppbv	0.35	1.68	08/04/20 14:36 MJL	156-59-2	
Tetrachloroethene	0.083J	ppbv	0.17	1.68	08/04/20 14:36 MJL	127-18-4	
trans-1,2-Dichloroethene	0.19J	ppbv	0.35	1.68	08/04/20 14:36 MJL	156-60-5	
Trichloroethene	1	ppbv	0.17	1.68	08/04/20 14:36 MJL	79-01-6	
Vinyl chloride	< 0.065	ppbv	0.17	1.68	08/04/20 14:36 MJL	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.



Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10526973

Phone: 843.746.8525 Project Name: 25219179.00 Susie's Restaurant

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463

TTY Access via relay - 711



September 1, 2020

SALVADOR VELASQUEZ 2604 CUSTER ST MANITOWOC WI 54220

Subject: Notification of Groundwater Sampling Results

WI DOT – Susie's Restaurant (Former) – LGU - SL, 1020 S. 26th Street, Manitowoc, WI

BRRTS #: 02-36-000516

Dear Mr. Velasquez:

Please find the attached results from the July 29, 2020 sampling of the groundwater monitoring well, MW-3, on your property at 2604 Custer Street, Manitowoc, WI. This well was sampled as part of the investigation for the WI DOT – Susie's Restaurant (Former) – LGU – SL site. The sample was collected by SCS Engineers, a consultant hired by the Department of Natural Resources (DNR) for the work associated with the WI DOT – Susie's Restaurant (Former) – LGU – SL site. The sample collected from monitoring well MW-3 was analyzed for the following Chlorinated Volatile Organic Compounds (CVOCs); cis-1,2-dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride

The test results show that only Trichloroethene was detected at an estimated concentration of 0.36 ug/L (parts per billion), which is below both the Wis. Admin. Code NR 140 public health preventive action level and enforcement standard and does not pose a threat to you or your employees. The concentration is estimated as TCE was detected above the lab reporting limit but was found to be below the method detection limit. The rest of the previously mentioned CVOCs were not detected. Please refer to the attached laboratory analytical report.

If you have any questions, please contact me at (920) 510-9482 or by email at ColinR.Schmenk@Wisconsin.gov.

Sincerely,

Colin Schmenk Hydrogeologist

Remediation & Redevelopment Program Wisconsin Department of Natural Resources

Att. Report of Laboratory Analysis

cc: Greg Minikel, City of Manitowoc (gminikel@manitowoc.org)





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185795-1

Client Project/Site: Susie's Restaurant - 25219179.00

For:

SCS Engineers 2830 Dairy Dr Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Sanda Juluik

Authorized for release by: 8/12/2020 1:02:00 PM

Sandie Fredrick, Project Manager II (920)261-1660

sandie.fredrick@testamericainc.com

----- LINKS -----

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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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Project/Site: Susie's Restaurant - 25219179.00

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Certification Summary	14
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Case Narrative

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185795-1

Comments

No additional comments.

Receipt

The samples were received on 7/31/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.3° C.

GC/MS VOA

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

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Detection Summary

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3 Lab Sample ID: 500-185795-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Trichloroethene	0.36 J	0.50	0.16 ug/L	1 8260B	Total/NA

Client Sample ID: Trip Blank	Lab Sample ID: 500-185795-2
------------------------------	-----------------------------

No Detections.

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Method Summary

Client: SCS Engineers

Project/Site: Susie's Restaurant - 25219179.00

MethodMethod DescriptionProtocolLaboratory8260BVolatile Organic Compounds (GC/MS)SW846TAL CHI5030BPurge and TrapSW846TAL CHI

Protocol References:

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

Laboratory References:

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

Job ID: 500-185795-1

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Sample Summary

Client: SCS Engineers

Project/Site: Susie's Restaurant - 25219179.00

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected 07/29/20 14:30
 Received 07/31/20 09:45
 Asset ID

 500-185795-1
 MW-3
 Water
 07/29/20 00:00
 07/31/20 09:45
 Collected 07/29/20 00:00
 <

Job ID: 500-185795-1

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Client Sample Results

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3

Lab Sample ID: 500-185795-1 Date Collected: 07/29/20 14:30

Matrix: Water

Date Received: 07/31/20 09:45

Method: 8260B - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/11/20 19:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/11/20 19:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/11/20 19:08	1
Trichloroethene	0.36	J	0.50	0.16	ug/L			08/11/20 19:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/11/20 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	· -	72 - 124			-		08/11/20 19:08	1
Dibromofluoromethane	99		75 - 120					08/11/20 19:08	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126					08/11/20 19:08	1
Toluene-d8 (Surr)	99		75 - 120					08/11/20 19:08	1

Client Sample Results

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: Trip Blank

Date Received: 07/31/20 09:45

1,2-Dichloroethane-d4 (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 500-185795-2 Date Collected: 07/29/20 00:00

Matrix: Water

08/11/20 14:38

08/11/20 14:38

Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/11/20 14:38	1
Tetrachloroethene	< 0.37		1.0	0.37	ug/L			08/11/20 14:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/11/20 14:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/11/20 14:38	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/11/20 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124			-		08/11/20 14:38	1
Dibromofluoromethane	98		75 - 120					08/11/20 14:38	1

75 - 126

75 - 120

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Definitions/Glossary

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<u></u>	Listed under the "D" column to designete that the recult is reported an a dry weight has

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
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)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
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)

TNTC Too Numerous To Count

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QC Association Summary

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

GC/MS VOA

Analysis Batch: 556198

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Į	500-185795-1	MW-3	Total/NA	Water	8260B	
į	500-185795-2	Trip Blank	Total/NA	Water	8260B	
ı	MB 500-556198/7	Method Blank	Total/NA	Water	8260B	
l	_CS 500-556198/5	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	gate Reco
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-185795-1	MW-3	98	99	105	99
500-185795-2	Trip Blank	93	98	104	98
LCS 500-556198/5	Lab Control Sample	94	100	104	100
MB 500-556198/7	Method Blank	94	100	107	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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QC Sample Results

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

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

Lab Sample ID: MB 500-556198/7

Matrix: Water

Analysis Batch: 556198

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/11/20 11:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/11/20 11:04	1
trans-1,2-Dichloroethene	< 0.35		1.0	0.35	ug/L			08/11/20 11:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/11/20 11:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/11/20 11:04	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 4-Bromofluorobenzene (Surr) 94 72 - 124 08/11/20 11:04 100 Dibromofluoromethane 75 - 120 08/11/20 11:04 75 - 126 1,2-Dichloroethane-d4 (Surr) 107 08/11/20 11:04 Toluene-d8 (Surr) 98 75 - 120 08/11/20 11:04

Lab Sample ID: LCS 500-556198/5

Matrix: Water

Analysis Batch: 556198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits cis-1,2-Dichloroethene 50.0 46.9 94 70 - 125 ug/L Tetrachloroethene 50.0 50.5 ug/L 101 70 - 128 trans-1,2-Dichloroethene 50.0 46.5 ug/L 93 70 - 125 50.6 Trichloroethene 50.0 ug/L 101 70 - 125 Vinyl chloride 50.0 53.0 106 ug/L 64 - 126

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		75 - 126
Toluene-d8 (Surr)	100		75 - 120

Lab Chronicle

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3 Lab Sample ID: 500-185795-1

Date Collected: 07/29/20 14:30 Matrix: Water Date Received: 07/31/20 09:45

Batch **Batch** Dilution Batch **Prepared** Method Run **Factor** or Analyzed **Prep Type** Type Number Analyst Lab Total/NA 8260B 08/11/20 19:08 STW TAL CHI Analysis 556198

Client Sample ID: Trip Blank Lab Sample ID: 500-185795-2

Date Collected: 07/29/20 00:00 Matrix: Water

Date Received: 07/31/20 09:45

Batch Batch Dilution **Batch** Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Total/NA Analysis 8260B 556198 08/11/20 14:38 STW TAL CHI

Laboratory References:

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

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Accreditation/Certification Summary

Client: SCS Engineers Job ID: 500-185795-1

Project/Site: Susie's Restaurant - 25219179.00

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

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2417 Bond Street

University Park IL 60484

Chain of Custody Record

As euroffes

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Client Contact Mr. Robert Langdon	608	212	2995	E-N sai		edric	k@test:	americainc.c	com	99		00	Page Page 1 of 1	
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Client: SCS Engineers Job Number: 500-185795-1

Login Number: 185795 List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

oreator. James, Jen A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	5.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	see NCM
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	

Eurofins TestAmerica, Chicago