

**From:** Langdon, Robert <RLangdon@scsengineers.com>  
**Sent:** Monday, December 16, 2019 12:57 PM  
**To:** Krueger, Sarah E - DNR  
**Subject:** FW: 25219179 Susie's Restaurant (Pace Project # 10501881)  
**Attachments:** 10501881\_frc.pdf

Hi Sarah, I've attached the analytical report for recent vapor sampling for the Susie's Restaurant case. More details to follow of course!

Hope all is well!

-Rob

**Robert Langdon**  
Senior Hydrogeologist/Project Manager

**SCS ENGINEERS**  
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**From:** Paceport Email Notification <[kirsten.hogberg@pacelabs.com](mailto:kirsten.hogberg@pacelabs.com)>  
**Sent:** Monday, December 16, 2019 12:30 PM  
**To:** [kirsten.hogberg@pacelabs.com](mailto:kirsten.hogberg@pacelabs.com); Langdon, Robert <[RLangdon@scsengineers.com](mailto:RLangdon@scsengineers.com)>  
**Subject:** 25219179 Susie's Restaurant (Pace Project # 10501881)

===== This message originated outside of SCS  
Engineers =====



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## Pace Automated Email Notification

This email contains EDDs and Reports generated by Paceport's automated deliverable service. The attached files have been authorized to be sent to you due to the completion of project 10501881. Your Pace project manager has been CC'ed on this email so that you may request any further assistance.

To access this project's page in paceport click on the following link.

<http://paceport.pacelabs.com/ClientPortal/mvc/projectDetails/modelAndView?projectID=10501881&systemID=lims10>

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December 16, 2019

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

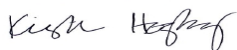
RE: Project: 25219179 Susie's Restaurant  
Pace Project No.: 10501881

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kirsten Hogberg  
kirsten.hogberg@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

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### **Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #: 74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10501881001	MH 7-149	Air	12/03/19 10:24	12/06/19 13:30
10501881002	MH 7-142	Air	12/03/19 10:54	12/06/19 13:30
10501881003	MH 7-139	Air	12/03/19 11:13	12/06/19 13:30
10501881004	MH 7-143	Air	12/03/19 11:45	12/06/19 13:30
10501881005	MH 7-146	Air	12/03/19 12:17	12/06/19 13:30
10501881006	IA-1 2614 Custer bsmt.	Air	12/03/19 13:50	12/06/19 13:30
10501881007	IA-2 2614 Custer LR	Air	12/03/19 08:42	12/06/19 13:30
10501881008	IA-3 Golden Flame bsmt.	Air	12/03/19 14:40	12/06/19 13:30
10501881009	IA-4 Golden Flame Mens	Air	12/03/19 14:22	12/06/19 13:30
10501881010	IA-5 Golden Flame DR	Air	12/03/19 14:34	12/06/19 13:30
10501881011	IA-6 2616 Washington Up	Air	12/03/19 15:21	12/06/19 13:30
10501881012	IA-7 2616 Washington down	Air	12/03/19 15:23	12/06/19 13:30
10501881013	IA-8 1002 26th upstairs	Air	12/03/19 15:46	12/06/19 13:30
10501881014	IA-9 1002 26th down st.	Air	12/03/19 16:32	12/06/19 13:30
10501881015	IA-10 2525 Washington	Air	12/03/19 15:46	12/06/19 13:30
10501881016	Unused Can 0885	Air		12/06/19 13:30
10501881017	Unused Can 0317	Air		12/06/19 13:30
10501881018	VP-9 2525 Washington	Air	12/04/19 10:21	12/06/19 13:30
10501881019	Unused Can 1593	Air		12/06/19 13:30
10501881020	Unused Can 0147	Air		12/06/19 13:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 25219179 Susie's Restaurant  
Pace Project No.: 10501881

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10501881001	MH 7-149	TO-15	AFV	5	PASI-M
10501881002	MH 7-142	TO-15	AFV	5	PASI-M
10501881003	MH 7-139	TO-15	AFV	5	PASI-M
10501881004	MH 7-143	TO-15	AFV	5	PASI-M
10501881005	MH 7-146	TO-15	AFV	5	PASI-M
10501881006	IA-1 2614 Custer bsmt.	TO-15	AFV	5	PASI-M
10501881007	IA-2 2614 Custer LR	TO-15	AFV	5	PASI-M
10501881008	IA-3 Golden Flame bsmt.	TO-15	AFV	5	PASI-M
10501881009	IA-4 Golden Flame Mens	TO-15	AFV	5	PASI-M
10501881010	IA-5 Golden Flame DR	TO-15	AFV	5	PASI-M
10501881011	IA-6 2616 Washington Up	TO-15	AFV	5	PASI-M
10501881012	IA-7 2616 Washington down	TO-15	AFV	5	PASI-M
10501881013	IA-8 1002 26th upstairs	TO-15	AFV	5	PASI-M
10501881014	IA-9 1002 26th down st.	TO-15	AFV	5	PASI-M
10501881015	IA-10 2525 Washington	TO-15	AFV	5	PASI-M
10501881018	VP-9 2525 Washington	TO-15	AFV	5	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

Sample: MH 7-149									
		Lab ID: 10501881001	Collected: 12/03/19 10:24	Received: 12/06/19 13:30	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	179	ug/m3	1.6	0.44	2.02		12/11/19 05:05	156-59-2	
trans-1,2-Dichloroethene	38.0	ug/m3	1.6	0.58	2.02		12/11/19 05:05	156-60-5	
Tetrachloroethene	2.3	ug/m3	1.4	0.63	2.02		12/11/19 05:05	127-18-4	
Trichloroethene	371	ug/m3	11.0	5.1	20.2		12/11/19 13:26	79-01-6	
Vinyl chloride	7.7	ug/m3	0.53	0.25	2.02		12/11/19 05:05	75-01-4	

Sample: MH 7-142									
		Lab ID: 10501881002	Collected: 12/03/19 10:54	Received: 12/06/19 13:30	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	37.3	ug/m3	1.6	0.44	2.02		12/11/19 05:35	156-59-2	
trans-1,2-Dichloroethene	8.4	ug/m3	1.6	0.58	2.02		12/11/19 05:35	156-60-5	
Tetrachloroethene	43.4	ug/m3	1.4	0.63	2.02		12/11/19 05:35	127-18-4	
Trichloroethene	74.0	ug/m3	1.1	0.51	2.02		12/11/19 05:35	79-01-6	
Vinyl chloride	1.9	ug/m3	0.53	0.25	2.02		12/11/19 05:35	75-01-4	

Sample: MH 7-139									
		Lab ID: 10501881003	Collected: 12/03/19 11:13	Received: 12/06/19 13:30	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	6.1	ug/m3	1.6	0.44	2.02		12/11/19 06:04	156-59-2	
trans-1,2-Dichloroethene	1.3J	ug/m3	1.6	0.58	2.02		12/11/19 06:04	156-60-5	
Tetrachloroethene	12.9	ug/m3	1.4	0.63	2.02		12/11/19 06:04	127-18-4	
Trichloroethene	7.9	ug/m3	1.1	0.51	2.02		12/11/19 06:04	79-01-6	
Vinyl chloride	<0.25	ug/m3	0.53	0.25	2.02		12/11/19 06:04	75-01-4	

Sample: MH 7-143									
		Lab ID: 10501881004	Collected: 12/03/19 11:45	Received: 12/06/19 13:30	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.41	ug/m3	1.5	0.41	1.87		12/11/19 06:34	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/m3	1.5	0.53	1.87		12/11/19 06:34	156-60-5	
Tetrachloroethene	<0.59	ug/m3	1.3	0.59	1.87		12/11/19 06:34	127-18-4	
Trichloroethene	<0.47	ug/m3	1.0	0.47	1.87		12/11/19 06:34	79-01-6	
Vinyl chloride	<0.24	ug/m3	0.49	0.24	1.87		12/11/19 06:34	75-01-4	

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## ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

Sample: MH 7-146      Lab ID: 10501881005      Collected: 12/03/19 12:17      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.42	ug/m3	1.6	0.42	1.94		12/11/19 07:03	156-59-2	
trans-1,2-Dichloroethene	<0.55	ug/m3	1.6	0.55	1.94		12/11/19 07:03	156-60-5	
Tetrachloroethene	41.9	ug/m3	1.3	0.61	1.94		12/11/19 07:03	127-18-4	
Trichloroethene	<0.49	ug/m3	1.1	0.49	1.94		12/11/19 07:03	79-01-6	
Vinyl chloride	<0.24	ug/m3	0.50	0.24	1.94		12/11/19 07:03	75-01-4	

Sample: IA-1 2614 Custer bsmt.      Lab ID: 10501881006      Collected: 12/03/19 13:50      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		12/11/19 01:07	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		12/11/19 01:07	156-60-5	
Tetrachloroethene	<0.57	ug/m3	1.3	0.57	1.83		12/11/19 01:07	127-18-4	
Trichloroethene	<0.46	ug/m3	1.0	0.46	1.83		12/11/19 01:07	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		12/11/19 01:07	75-01-4	

Sample: IA-2 2614 Custer LR      Lab ID: 10501881007      Collected: 12/03/19 08:42      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		12/10/19 22:08	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		12/10/19 22:08	156-60-5	
Tetrachloroethene	<0.57	ug/m3	1.3	0.57	1.83		12/10/19 22:08	127-18-4	
Trichloroethene	<0.46	ug/m3	1.0	0.46	1.83		12/10/19 22:08	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		12/10/19 22:08	75-01-4	

Sample: IA-3 Golden Flame bsmt.      Lab ID: 10501881008      Collected: 12/03/19 14:40      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	2.0	ug/m3	1.2	0.33	1.49		12/10/19 23:08	156-59-2	
trans-1,2-Dichloroethene	0.44J	ug/m3	1.2	0.42	1.49		12/10/19 23:08	156-60-5	
Tetrachloroethene	0.98J	ug/m3	1.0	0.47	1.49		12/10/19 23:08	127-18-4	
Trichloroethene	4.1	ug/m3	0.81	0.38	1.49		12/10/19 23:08	79-01-6	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		12/10/19 23:08	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: IA-4 Golden Flame Mens</b> <b>Lab ID: 10501881009</b> Collected: 12/03/19 14:22      Received: 12/06/19 13:30      Matrix: Air									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		12/11/19 00:07	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		12/11/19 00:07	156-60-5	
Tetrachloroethene	<0.47	ug/m3	1.0	0.47	1.49		12/11/19 00:07	127-18-4	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		12/11/19 00:07	79-01-6	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		12/11/19 00:07	75-01-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: IA-5 Golden Flame DR</b> <b>Lab ID: 10501881010</b> Collected: 12/03/19 14:34      Received: 12/06/19 13:30      Matrix: Air									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.44		12/11/19 00:37	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.44		12/11/19 00:37	156-60-5	
Tetrachloroethene	<0.45	ug/m3	0.99	0.45	1.44		12/11/19 00:37	127-18-4	
Trichloroethene	<0.36	ug/m3	0.79	0.36	1.44		12/11/19 00:37	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		12/11/19 00:37	75-01-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: IA-6 2616 Washington Up</b> <b>Lab ID: 10501881011</b> Collected: 12/03/19 15:21      Received: 12/06/19 13:30      Matrix: Air									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.35	ug/m3	1.3	0.35	1.61		12/11/19 01:36	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.3	0.46	1.61		12/11/19 01:36	156-60-5	
Tetrachloroethene	0.68J	ug/m3	1.1	0.51	1.61		12/11/19 01:36	127-18-4	
Trichloroethene	0.55J	ug/m3	0.88	0.41	1.61		12/11/19 01:36	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		12/11/19 01:36	75-01-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: IA-7 2616 Washington down</b> <b>Lab ID: 10501881012</b> Collected: 12/03/19 15:23      Received: 12/06/19 13:30      Matrix: Air									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.35	ug/m3	1.3	0.35	1.61		12/11/19 02:06	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.3	0.46	1.61		12/11/19 02:06	156-60-5	
Tetrachloroethene	0.61J	ug/m3	1.1	0.51	1.61		12/11/19 02:06	127-18-4	
Trichloroethene	0.66J	ug/m3	0.88	0.41	1.61		12/11/19 02:06	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		12/11/19 02:06	75-01-4	

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## ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

Sample: IA-8 1002 26th upstairs      Lab ID: 10501881013      Collected: 12/03/19 15:46      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.44		12/11/19 02:36	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.44		12/11/19 02:36	156-60-5	
Tetrachloroethene	<0.45	ug/m3	0.99	0.45	1.44		12/11/19 02:36	127-18-4	
Trichloroethene	<0.36	ug/m3	0.79	0.36	1.44		12/11/19 02:36	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		12/11/19 02:36	75-01-4	

Sample: IA-9 1002 26th down st.      Lab ID: 10501881014      Collected: 12/03/19 16:32      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.44		12/11/19 03:05	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.44		12/11/19 03:05	156-60-5	
Tetrachloroethene	<0.45	ug/m3	0.99	0.45	1.44		12/11/19 03:05	127-18-4	
Trichloroethene	<0.36	ug/m3	0.79	0.36	1.44		12/11/19 03:05	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		12/11/19 03:05	75-01-4	

Sample: IA-10 2525 Washington      Lab ID: 10501881015      Collected: 12/03/19 15:46      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.35	ug/m3	1.3	0.35	1.61		12/11/19 03:35	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.3	0.46	1.61		12/11/19 03:35	156-60-5	
Tetrachloroethene	<0.51	ug/m3	1.1	0.51	1.61		12/11/19 03:35	127-18-4	
Trichloroethene	<0.41	ug/m3	0.88	0.41	1.61		12/11/19 03:35	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		12/11/19 03:35	75-01-4	

Sample: VP-9 2525 Washington      Lab ID: 10501881018      Collected: 12/04/19 10:21      Received: 12/06/19 13:30      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.35	ug/m3	1.3	0.35	1.61		12/11/19 04:05	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.3	0.46	1.61		12/11/19 04:05	156-60-5	
Tetrachloroethene	<0.51	ug/m3	1.1	0.51	1.61		12/11/19 04:05	127-18-4	
Trichloroethene	<0.41	ug/m3	0.88	0.41	1.61		12/11/19 04:05	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		12/11/19 04:05	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

QC Batch:	649172	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
Associated Lab Samples:	10501881001, 10501881002, 10501881003, 10501881004, 10501881005, 10501881006, 10501881007, 10501881008, 10501881009, 10501881010, 10501881011, 10501881012, 10501881013, 10501881014, 10501881015, 10501881018		

METHOD BLANK:	3491709	Matrix:	Air
Associated Lab Samples:	10501881001, 10501881002, 10501881003, 10501881004, 10501881005, 10501881006, 10501881007, 10501881008, 10501881009, 10501881010, 10501881011, 10501881012, 10501881013, 10501881014, 10501881015, 10501881018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	12/10/19 15:12	
Tetrachloroethene	ug/m3	<0.31	0.69	12/10/19 15:12	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	12/10/19 15:12	
Trichloroethene	ug/m3	<0.25	0.55	12/10/19 15:12	
Vinyl chloride	ug/m3	<0.13	0.26	12/10/19 15:12	

LABORATORY CONTROL SAMPLE: 3491710						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.9	42.8	102	70-130	
Tetrachloroethene	ug/m3	70.3	69.4	99	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	41.6	100	70-130	
Trichloroethene	ug/m3	56.3	57.8	103	70-130	
Vinyl chloride	ug/m3	28.1	25.9	92	70-130	

SAMPLE DUPLICATE: 3492715						
Parameter	Units	10501881007 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
Tetrachloroethene	ug/m3	<0.57	<0.57		25	
trans-1,2-Dichloroethene	ug/m3	<0.52	<0.52		25	
Trichloroethene	ug/m3	<0.46	<0.46		25	
Vinyl chloride	ug/m3	<0.23	<0.23		25	

SAMPLE DUPLICATE: 3492716						
Parameter	Units	10501881008 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	2.0	2.0	0	25	
Tetrachloroethene	ug/m3	0.98J	0.97J		25	
trans-1,2-Dichloroethene	ug/m3	0.44J	<0.42		25	
Trichloroethene	ug/m3	4.1	4.2	2	25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 25219179 Susie's Restaurant

Pace Project No.: 10501881

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### 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.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25219179 Susie's Restaurant  
Pace Project No.: 10501881

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10501881001	MH 7-149	TO-15	649172		
10501881002	MH 7-142	TO-15	649172		
10501881003	MH 7-139	TO-15	649172		
10501881004	MH 7-143	TO-15	649172		
10501881005	MH 7-146	TO-15	649172		
10501881006	IA-1 2614 Custer bsmt.	TO-15	649172		
10501881007	IA-2 2614 Custer LR	TO-15	649172		
10501881008	IA-3 Golden Flame bsmt.	TO-15	649172		
10501881009	IA-4 Golden Flame Mens	TO-15	649172		
10501881010	IA-5 Golden Flame DR	TO-15	649172		
10501881011	IA-6 2616 Washington Up	TO-15	649172		
10501881012	IA-7 2616 Washington down	TO-15	649172		
10501881013	IA-8 1002 26th upstairs	TO-15	649172		
10501881014	IA-9 1002 26th down st.	TO-15	649172		
10501881015	IA-10 2525 Washington	TO-15	649172		
10501881018	VP-9 2525 Washington	TO-15	649172		

### REPORT OF LABORATORY ANALYSIS

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WO#: 10501881



10501881

R: CHAIN-OF-CUSTODY / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Page: 1 of 2

Section A

Required Client Information:

Section B

Required Project Information:

Invoice Information:

Company: <b>SCS Engineers</b>	Report To: <b>Robert Langdon</b>	Attention: <b>Robert Langdon</b>
Address: <b>2830 Dairy Drive Madison WI 53718</b>	Copy To:	Company Name: <b>SCS Engineers</b>
Email To: <b>rlangdon@scseng.com</b>	Purchase Order No.:	Address: <b>2830 Dairy Drive, Madison WI</b>
Phone: <b>608-216-7329</b> Fax: <b>608-224-2839</b>	Project Name: <b>Susie's Restaurant</b>	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: <b>25219179</b>	Pace Project Manager/Sales Rep.:
		Pace Profile #:

Program	
<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act	
<input type="checkbox"/> Voluntary Clean Up <input checked="" type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Location of Sampling by State: <b>WI</b>	Reporting Units ug/m <sup>3</sup> _____ PPBV _____ PPMV _____ Other _____
Report Level: <u>II</u> <input type="checkbox"/> <u>III</u> <input type="checkbox"/> <u>IV</u> <input type="checkbox"/> Other: _____	

ITEM #	Section D Required Client Information		COLLECTED				Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID
	AIR SAMPLE ID		COMPOSITE START		COMPOSITE - END/GRAB						PM10	3c - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	
	Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE	DATE	TIME	DATE	TIME													
1	MH 7-149	ILC 23	12/3/19	10:49	12/3/19	10:24	29	7	2496	1177								001	
2	MH 7-142	ILC 0	12/3/19	10:49	12/3/19	10:54	28	6	1016	2822								002	
3	MH 7-139	ILC 0	12/3/19	11:08	12/3/19	11:23	29	7	3283	0708								003	
4	MH 7-143	ILC 0	12/3/19	11:40	12/3/19	11:45	29	5	2575	1698								004	
5	MH 7-146	ILC 0	12/3/19	12:12	12/3/19	12:17	28	6	2237	1823								005	
6	IA-1 2614 Custer bsmt.	GLC 0	12/2/19	13:47	12/3/19	13:50	30	10	0291	0260								006	
7	IA-2 2614 Custer LR	GLC -	12/2/19	13:49	12/3/19	8:42	20	0	0803	1350								007	
8	IA-3 Golden Flame bsmt.	GLC 0	12/3/19	6:38	12/3/19	14:40	28	4	2710	1986								008	
9	IA-4 Golden Flame Mens	GLC 0	12/3/19	6:20	12/3/19	14:22	30	3	2298	1254								009	
10	IA-5 Golden Flame DR	GLC 0	12/3/19	6:33	12/3/19	14:34	30	3	3550	1850								010	
11	IA-6 2616 Washington up	GLC 0	12/3/19	7:50	12/3/19	15:21	28	4	3565	1794								011	
12	IA-7 2616 Washington down	GLC 0	12/3/19	7:52	12/3/19	15:23	26	2	1208	1868								012	

Comments: Ambient air at IA-6 and IA-7 had elevated PM10 readings in the 200-400 ppb range initially, 0-16 ppb when shut off

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
Eric Oelkers / SCS	12/4/19	15:00	WjD / Pace	12/6/19	13:30	-	Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Eric Oelkers**  
 SIGNATURE of SAMPLER: *Eric Oelkers*  
 DATE Signed (MM/DD/YY): **12/4/2019**

Temp in °C \_\_\_\_\_  
 Received on Ice \_\_\_\_\_  
 Custody Sealed Cooler \_\_\_\_\_  
 Samples Intact \_\_\_\_\_

ORIGINAL



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Page: 2 of 2

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>Program</b> <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input checked="" type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Company: <u>SES Engineers</u> Address: <u>2830 Dairy Drive</u> <u>Madison WI 53718</u> Email To: <u>Robert Langdon SES Engineers Inc</u> Phone: <u>608 267 7329</u> Fax: <u>608 224 2839</u> Requested Due Date/TAT:	Report To: <u>Robert Langdon</u> Copy To: Purchase Order No.: Project Name: <u>Susie's Restaurant</u> Project Number: <u>25219179</u>	Attention: <u>Robert Langdon</u> Company Name: <u>SES Engineers</u> Address: <u>2830 Dairy Drive, Madison WI</u> Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #: <u>32630</u>	Reporting Units ug/m <sup>3</sup> mg/m <sup>3</sup> ___ PPBV PPMV ___ Other ___ Location of Sampling by State <u>WI</u> Report Level: <u>II</u> ___ III ___ IV ___ Other ___

ITEM #	Section D Required Client Information		Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
	AIR SAMPLE ID					COMPOSITE START		COMPOSITE - END/GRAB						PM10	2C - Fixed Gas (%)	TO-9 BTEX	TO-11M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated		TO-15 Short List (other)
	Sample IDs MUST BE UNIQUE					DATE	TIME	DATE	TIME														
1	IA-8	1002 26th upstair	GLC	O	12/3/19	8:19	12/3/19	15:16	28	4	3612	1790										013	
2	IA-9	1002 26th downst	GLC		12/3/19	8:20	12/3/19	6:32	30	5	3341	1789											014
3	IA-10	2525 Washington	GLC		12/3/19	8:07	12/3/19	15:46	29	4	2675	1679											015
4	Not used - no vacuum		GLC		12/3/19	6:00	-	-	0	-	0585	0227											016
5	1002-5 26th VP-7		GLC		wet - no sample																		017
6	VP-8 2616 Washington		GLC		wet - no sample																		019
7	VP-9	2525 Washington	GLC		12/4/19	9:46	12/4/19	10:21	30	6	0171	0505											018
8	VP-1R	2614 Custer	GLC		12/3/19	wet - no sample																	020
9																							KNH 12/13/19

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
		<u>Eric Orlan / SES</u>	<u>12/4/19</u>	<u>15:00</u>	<u>WJ Pace</u>	<u>12/6/19</u>	<u>13:30</u>	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Orlan

SIGNATURE of SAMPLER: Eric Orlan

DATE Signed (MM/DD/YY): 12/4/2019

ORIGINAL





Document Name:  
**Air Sample Condition Upon Receipt**

Document No.:  
**F-MN-A-106-rev.19**

Document Revised: 14Oct2019  
Page 1 of 1

Issuing Authority:  
Pace Minnesota Quality Office

**Air Sample Condition Upon Receipt**

Client Name: SCS Engineering

Project #: \_\_\_\_\_

**WO# : 10501881**

PM: KNH Due Date: 12/13/19

CLIENT: SCS Engineer

Courier:  Fed Ex  UPS  USPS  Client  
 Pace  Speedee  Commercial See Exception

Tracking Number: 1083 0282 5268/5857/5835/5824/5846

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_ Thermometer Used:  G87A9170600254  G87A9155100842

Temp should be above freezing to 6°C Correction Factor: \_\_\_\_\_ Date & Initials of Person Examining Contents: WJD 12/9/19

Type of ice Received  Blue  Wet  None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # <input checked="" type="checkbox"/> 10AIR26 <input type="checkbox"/> 10AIR34 <input type="checkbox"/> 10AIR35 <input type="checkbox"/> 4097									
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
MH 7-149	2496	1177	-5	+10	IA-4	2298	1254	-3	+5
MH 7-142	1016	2822	-5	+10	IA-5	3550	1850	-2	+5
MH 7-139	3283	0708	-5	+10	IA-6	3565	1794	-5	+5
MH 7-143	2575	1698	-3	+10	IA-7	1208	1868	-5	+5
MH 7-146	2237	1823	-4	+10	IA-8	3612	1790	-2	+5
IA-1	0291	0260	-8	+5	IA-9	3341	1789	-2	+5
IA-2	0803	1350	-8	+5	IA-10	2675	1679	-5	+5
IA-3	2710	1986	-3	+5	Unused can	0885	0227	0	-

CLIENT NOTIFICATION/RESOLUTION Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: Kirsten Hopfer Date: 12/9/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)





Document Name:  
**Air Sample Condition Upon Receipt**

Document No.:  
**F-MN-A-106-rev.19**

Document Revised: 14Oct2019  
Page 1 of 1

Issuing Authority:  
Pace Minnesota Quality Office

**Air Sample Condition Upon Receipt**

Client Name: \_\_\_\_\_

Project #: \_\_\_\_\_

Courier:  FedEx  UPS  USPS  Client  
 Pace  SpeeDee  Commercial See Exception

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_      Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_      Thermometer Used:  G87A9170600254  
 G87A9155100842

Temp should be above freezing to 6°C      Correction Factor: \_\_\_\_\_      Date & Initials of Person Examining Contents: \_\_\_\_\_

Type of ice Received  Blue  Wet  None

Comments:

Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media:    Air Can    Airbag    Filter    TDT    Passive		11.    Individually Certified Cans    Y    N    (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge #  10AIR26  10AIR34  10AIR35  4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Unused Can	0317	0829	-29	-					
VP-9	0121	1865	-5	+5					
Unused can	1593	1644	-28	-					
Unused can	0147	1213	-29	-					

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)