



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

Eric J. Holcomb  
Governor

Bruno Pigott  
Commissioner

11/1/2018

██████████  
██████████ Home Ave  
Franklin, IN 46131

Dear ██████████:

RE: Air Sampling Results

As you know, the Indiana Department of Environmental Management (IDEM) collected air samples at your home from October 17 to 18, 2018. An independent contract laboratory was hired by IDEM to test the samples for volatile organic compounds (VOCs) including the chemicals previously found by others, tetrachloroethylene (PCE) and trichloroethylene (TCE). We received the results of the tests and are pleased to report that neither PCE nor TCE were found in your indoor air, basement air, or outdoor ambient air above the laboratory detection limits. While PCE was detected in soil gas collected from beneath your basement slab, the results of the sample and sample duplicate collected from your basement show that no PCE was present within your home. All other parameters analyzed were reported below a level of concern.

Please find the attached laboratory results for your samples. If you have questions regarding the results, or any questions regarding IDEM's work in Franklin, please feel free to contact Kevin Davis, the IDEM Franklin Project Coordinator at 317/234-4814 or by email at [kdavis2@idem.in.gov](mailto:kdavis2@idem.in.gov).

Sincerely,

Bruce Oertel, Chief  
Remediation Services Branch  
Office of Land Quality

BO:kd  
Attachment

cc: Johnson County Health Department



October 29, 2018

David Harrison  
IDEM  
100 North Senate Avenue  
Indianapolis, IN 462042251

RE: Project: TO15  
Pace Project No.: 10452698

Dear David Harrison:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout  
carolynne.trout@pacelabs.com  
1(612)607-6351  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: TO15  
Pace Project No.: 10452698

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### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

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 #: C-MN-01

Iowa Certification #: 368

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 Certification #: M-MN064

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

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH 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

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: TO15  
Pace Project No.: 10452698

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10452698001	LA373	Air	10/18/18 18:05	10/23/18 11:30
10452698002	LA373 cert 2389	Air	10/18/18 18:05	10/23/18 11:30
10452698003	LA374	Air	10/18/18 19:01	10/23/18 11:30
10452698004	LA374 cert 2384	Air	10/18/18 19:01	10/23/18 11:30
10452698005	LA375	Air	10/18/18 18:34	10/23/18 11:30
10452698006	LA375 cert 3611	Air	10/18/18 18:34	10/23/18 11:30
10452698007	LA376	Air	10/18/18 18:53	10/23/18 11:30
10452698008	LA376 cert 2717	Air	10/18/18 18:53	10/23/18 11:30
10452698009	LA377	Air	10/18/18 18:53	10/23/18 11:30
10452698010	LA377 cert 1666	Air	10/18/18 18:53	10/23/18 11:30
10452698011	LA383	Air	10/18/18 19:16	10/23/18 11:30
10452698012	LA383 cert 3464	Air	10/18/18 19:16	10/23/18 11:30

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: TO15  
Pace Project No.: 10452698

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10452698001	LA373	TO-15	MG2	61
10452698002	LA373 cert 2389	TO-15	MLS	61
10452698003	LA374	TO-15	MG2	61
10452698004	LA374 cert 2384	TO-15	MJL	61
10452698005	LA375	TO-15	MG2	61
10452698006	LA375 cert 3611	TO-15	CH1	61
10452698007	LA376	TO-15	MG2	61
10452698008	LA376 cert 2717	TO-15	MJL	61
10452698009	LA377	TO-15	MG2	61
10452698010	LA377 cert 1666	TO-15	MLS	61
10452698011	LA383	TO-15	MG2	61
10452698012	LA383 cert 3464	TO-15	AFV	61

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA373	Lab ID: 10452698001	Collected: 10/18/18 18:05	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	249	ug/m3	3.7	1.52		10/24/18 15:32	67-64-1	
Benzene	ND	ug/m3	0.49	1.52		10/24/18 15:32	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	1.52		10/24/18 15:32	100-44-7	
Bromodichloromethane	18.3	ug/m3	2.1	1.52		10/24/18 15:32	75-27-4	
Bromoform	ND	ug/m3	8.0	1.52		10/24/18 15:32	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.52		10/24/18 15:32	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	1.52		10/24/18 15:32	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	1.52		10/24/18 15:32	78-93-3	
Carbon disulfide	ND	ug/m3	0.96	1.52		10/24/18 15:32	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.52		10/24/18 15:32	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.52		10/24/18 15:32	108-90-7	
Chloroethane	ND	ug/m3	0.81	1.52		10/24/18 15:32	75-00-3	
Chloroform	71.7	ug/m3	0.75	1.52		10/24/18 15:32	67-66-3	
Chloromethane	ND	ug/m3	0.64	1.52		10/24/18 15:32	74-87-3	
Cyclohexane	ND	ug/m3	2.7	1.52		10/24/18 15:32	110-82-7	
Dibromochloromethane	6.8	ug/m3	2.6	1.52		10/24/18 15:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.52		10/24/18 15:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 15:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 15:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	1.52		10/24/18 15:32	106-46-7	
Dichlorodifluoromethane	2.0	ug/m3	1.5	1.52		10/24/18 15:32	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.52		10/24/18 15:32	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	1.52		10/24/18 15:32	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 15:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 15:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 15:32	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.52		10/24/18 15:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 15:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 15:32	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.52		10/24/18 15:32	76-14-2	
Ethanol	64.2	ug/m3	2.9	1.52		10/24/18 15:32	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.52		10/24/18 15:32	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.52		10/24/18 15:32	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	1.52		10/24/18 15:32	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.52		10/24/18 15:32	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	1.52		10/24/18 15:32	87-68-3	
n-Hexane	2.5	ug/m3	1.1	1.52		10/24/18 15:32	110-54-3	
2-Hexanone	ND	ug/m3	6.3	1.52		10/24/18 15:32	591-78-6	
Methylene Chloride	12.2	ug/m3	5.4	1.52		10/24/18 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	1.52		10/24/18 15:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	1.52		10/24/18 15:32	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.52		10/24/18 15:32	91-20-3	
2-Propanol	64.7	ug/m3	3.8	1.52		10/24/18 15:32	67-63-0	
Propylene	ND	ug/m3	0.53	1.52		10/24/18 15:32	115-07-1	
Styrene	ND	ug/m3	1.3	1.52		10/24/18 15:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.52		10/24/18 15:32	79-34-5	
Tetrachloroethene	ND	ug/m3	1.0	1.52		10/24/18 15:32	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA373		Lab ID: 10452698001		Collected: 10/18/18 18:05		Received: 10/23/18 11:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.91	1.52		10/24/18 15:32	109-99-9		
Toluene	ND	ug/m3	1.2	1.52		10/24/18 15:32	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	1.52		10/24/18 15:32	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.52		10/24/18 15:32	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	0.84	1.52		10/24/18 15:32	79-00-5		
Trichloroethene	ND	ug/m3	1.7	1.52		10/24/18 15:32	79-01-6		
Trichlorofluoromethane	ND	ug/m3	1.7	1.52		10/24/18 15:32	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.52		10/24/18 15:32	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 15:32	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 15:32	108-67-8		
Vinyl acetate	ND	ug/m3	1.1	1.52		10/24/18 15:32	108-05-4		
Vinyl chloride	ND	ug/m3	0.40	1.52		10/24/18 15:32	75-01-4		
m&p-Xylene	ND	ug/m3	2.7	1.52		10/24/18 15:32	179601-23-1		
o-Xylene	ND	ug/m3	1.3	1.52		10/24/18 15:32	95-47-6		

Sample: LA373 cert 2389		Lab ID: 10452698002		Collected: 10/18/18 18:05		Received: 10/23/18 11:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Individual Can Certification</b>		Analytical Method: TO-15							
Acetone	ND	ug/m3	1.2	0.5		10/02/18 12:50	67-64-1		
Benzene	ND	ug/m3	0.16	0.5		10/02/18 12:50	71-43-2		
Benzyl chloride	ND	ug/m3	1.3	0.5		10/02/18 12:50	100-44-7		
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/02/18 12:50	75-27-4		
Bromoform	ND	ug/m3	2.6	0.5		10/02/18 12:50	75-25-2		
Bromomethane	ND	ug/m3	0.39	0.5		10/02/18 12:50	74-83-9		
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/02/18 12:50	106-99-0		
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/02/18 12:50	78-93-3		
Carbon disulfide	ND	ug/m3	0.32	0.5		10/02/18 12:50	75-15-0		
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/02/18 12:50	56-23-5		
Chlorobenzene	ND	ug/m3	0.47	0.5		10/02/18 12:50	108-90-7		
Chloroethane	ND	ug/m3	0.27	0.5		10/02/18 12:50	75-00-3		
Chloroform	ND	ug/m3	0.25	0.5		10/02/18 12:50	67-66-3		
Chloromethane	ND	ug/m3	0.21	0.5		10/02/18 12:50	74-87-3		
Cyclohexane	ND	ug/m3	0.88	0.5		10/02/18 12:50	110-82-7		
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/02/18 12:50	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/02/18 12:50	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/02/18 12:50	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/02/18 12:50	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/02/18 12:50	106-46-7		
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/02/18 12:50	75-71-8		
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/02/18 12:50	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/02/18 12:50	107-06-2		
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 12:50	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 12:50	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 12:50	156-60-5		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA373 cert 2389	Lab ID: 10452698002	Collected: 10/18/18 18:05	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/02/18 12:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/02/18 12:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/02/18 12:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/02/18 12:50	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/02/18 12:50	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		10/02/18 12:50	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/02/18 12:50	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/02/18 12:50	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/02/18 12:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/02/18 12:50	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/02/18 12:50	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/02/18 12:50	591-78-6	
Methylene Chloride	ND	ug/m3	1.8	0.5		10/02/18 12:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/02/18 12:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/02/18 12:50	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/02/18 12:50	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/02/18 12:50	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/02/18 12:50	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/02/18 12:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/02/18 12:50	79-34-5	
Tetrachloroethene	ND	ug/m3	0.34	0.5		10/02/18 12:50	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/02/18 12:50	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/02/18 12:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/02/18 12:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/02/18 12:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/02/18 12:50	79-00-5	
Trichloroethene	ND	ug/m3	0.27	0.5		10/02/18 12:50	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/02/18 12:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/02/18 12:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/02/18 12:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/02/18 12:50	108-67-8	
Vinyl acetate	ND	ug/m3	0.36	0.5		10/02/18 12:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.13	0.5		10/02/18 12:50	75-01-4	
m&p-Xylene	ND	ug/m3	0.88	0.5		10/02/18 12:50	179601-23-1	
o-Xylene	ND	ug/m3	0.44	0.5		10/02/18 12:50	95-47-6	

Sample: LA374	Lab ID: 10452698003	Collected: 10/18/18 19:01	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	56.4	ug/m3	3.7	1.52		10/24/18 16:00	67-64-1	
Benzene	ND	ug/m3	0.49	1.52		10/24/18 16:00	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	1.52		10/24/18 16:00	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.52		10/24/18 16:00	75-27-4	
Bromoform	ND	ug/m3	8.0	1.52		10/24/18 16:00	75-25-2	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA374	Lab ID: 10452698003	Collected: 10/18/18 19:01	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Bromomethane	ND	ug/m3	1.2	1.52		10/24/18 16:00	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	1.52		10/24/18 16:00	106-99-0	
2-Butanone (MEK)	<b>11.3</b>	ug/m3	4.6	1.52		10/24/18 16:00	78-93-3	
Carbon disulfide	ND	ug/m3	0.96	1.52		10/24/18 16:00	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.52		10/24/18 16:00	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.52		10/24/18 16:00	108-90-7	
Chloroethane	ND	ug/m3	0.81	1.52		10/24/18 16:00	75-00-3	
Chloroform	<b>1.2</b>	ug/m3	0.75	1.52		10/24/18 16:00	67-66-3	
Chloromethane	<b>0.67</b>	ug/m3	0.64	1.52		10/24/18 16:00	74-87-3	
Cyclohexane	ND	ug/m3	2.7	1.52		10/24/18 16:00	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.52		10/24/18 16:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.52		10/24/18 16:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 16:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 16:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	1.52		10/24/18 16:00	106-46-7	
Dichlorodifluoromethane	<b>2.0</b>	ug/m3	1.5	1.52		10/24/18 16:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.52		10/24/18 16:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	1.52		10/24/18 16:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 16:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 16:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 16:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.52		10/24/18 16:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 16:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 16:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.52		10/24/18 16:00	76-14-2	
Ethanol	<b>337</b>	ug/m3	2.9	1.52		10/24/18 16:00	64-17-5	
Ethyl acetate	<b>3.9</b>	ug/m3	1.1	1.52		10/24/18 16:00	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.52		10/24/18 16:00	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	1.52		10/24/18 16:00	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.52		10/24/18 16:00	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	1.52		10/24/18 16:00	87-68-3	
n-Hexane	<b>1.8</b>	ug/m3	1.1	1.52		10/24/18 16:00	110-54-3	
2-Hexanone	ND	ug/m3	6.3	1.52		10/24/18 16:00	591-78-6	
Methylene Chloride	<b>15.5</b>	ug/m3	5.4	1.52		10/24/18 16:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	1.52		10/24/18 16:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	1.52		10/24/18 16:00	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.52		10/24/18 16:00	91-20-3	
2-Propanol	<b>12.0</b>	ug/m3	3.8	1.52		10/24/18 16:00	67-63-0	
Propylene	ND	ug/m3	0.53	1.52		10/24/18 16:00	115-07-1	
Styrene	ND	ug/m3	1.3	1.52		10/24/18 16:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.52		10/24/18 16:00	79-34-5	
Tetrachloroethene	ND	ug/m3	1.0	1.52		10/24/18 16:00	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.91	1.52		10/24/18 16:00	109-99-9	
Toluene	<b>2.4</b>	ug/m3	1.2	1.52		10/24/18 16:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	1.52		10/24/18 16:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.52		10/24/18 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.84	1.52		10/24/18 16:00	79-00-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA374		Lab ID: 10452698003	Collected: 10/18/18 19:01	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Trichloroethene	ND	ug/m3	1.7	1.52		10/24/18 16:00	79-01-6		
Trichlorofluoromethane	ND	ug/m3	1.7	1.52		10/24/18 16:00	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.52		10/24/18 16:00	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 16:00	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 16:00	108-67-8		
Vinyl acetate	ND	ug/m3	1.1	1.52		10/24/18 16:00	108-05-4		
Vinyl chloride	ND	ug/m3	0.40	1.52		10/24/18 16:00	75-01-4		
m&p-Xylene	ND	ug/m3	2.7	1.52		10/24/18 16:00	179601-23-1		
o-Xylene	ND	ug/m3	1.3	1.52		10/24/18 16:00	95-47-6		

Sample: LA374 cert 2384		Lab ID: 10452698004	Collected: 10/18/18 19:01	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Individual Can Certification</b>		Analytical Method: TO-15							
Acetone	ND	ug/m3	1.2	0.5		10/03/18 13:17	67-64-1		
Benzene	ND	ug/m3	0.16	0.5		10/03/18 13:17	71-43-2		
Benzyl chloride	ND	ug/m3	1.3	0.5		10/03/18 13:17	100-44-7		
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/03/18 13:17	75-27-4		
Bromoform	ND	ug/m3	2.6	0.5		10/03/18 13:17	75-25-2		
Bromomethane	ND	ug/m3	0.39	0.5		10/03/18 13:17	74-83-9		
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/03/18 13:17	106-99-0		
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/03/18 13:17	78-93-3		
Carbon disulfide	ND	ug/m3	0.32	0.5		10/03/18 13:17	75-15-0		
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/03/18 13:17	56-23-5		
Chlorobenzene	ND	ug/m3	0.47	0.5		10/03/18 13:17	108-90-7		
Chloroethane	ND	ug/m3	0.27	0.5		10/03/18 13:17	75-00-3		
Chloroform	ND	ug/m3	0.25	0.5		10/03/18 13:17	67-66-3		
Chloromethane	ND	ug/m3	0.21	0.5		10/03/18 13:17	74-87-3		
Cyclohexane	ND	ug/m3	0.88	0.5		10/03/18 13:17	110-82-7		
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/03/18 13:17	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/03/18 13:17	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 13:17	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 13:17	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/03/18 13:17	106-46-7		
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/03/18 13:17	75-71-8		
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/03/18 13:17	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/03/18 13:17	107-06-2		
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 13:17	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 13:17	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 13:17	156-60-5		
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/03/18 13:17	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 13:17	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 13:17	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/03/18 13:17	76-14-2		
Ethanol	ND	ug/m3	0.96	0.5		10/03/18 13:17	64-17-5		

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA374 cert 2384		Lab ID: 10452698004	Collected: 10/18/18 19:01	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Ethyl acetate	ND	ug/m3	0.37	0.5		10/03/18 13:17	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/03/18 13:17	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/03/18 13:17	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/03/18 13:17	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/03/18 13:17	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/03/18 13:17	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/03/18 13:17	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.5		10/03/18 13:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/03/18 13:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/03/18 13:17	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/03/18 13:17	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/03/18 13:17	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/03/18 13:17	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/03/18 13:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/03/18 13:17	79-34-5	
Tetrachloroethene	ND	ug/m3	0.34	0.5		10/03/18 13:17	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/03/18 13:17	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/03/18 13:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/03/18 13:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/03/18 13:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/03/18 13:17	79-00-5	
Trichloroethene	ND	ug/m3	0.27	0.5		10/03/18 13:17	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/03/18 13:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/03/18 13:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 13:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 13:17	108-67-8	
Vinyl acetate	ND	ug/m3	0.36	0.5		10/03/18 13:17	108-05-4	
Vinyl chloride	ND	ug/m3	0.13	0.5		10/03/18 13:17	75-01-4	
m&p-Xylene	ND	ug/m3	0.88	0.5		10/03/18 13:17	179601-23-1	
o-Xylene	ND	ug/m3	0.44	0.5		10/03/18 13:17	95-47-6	

Sample: LA375		Lab ID: 10452698005	Collected: 10/18/18 18:34	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	9.7	ug/m3	3.7	1.55		10/24/18 16:29	67-64-1	
Benzene	ND	ug/m3	0.50	1.55		10/24/18 16:29	71-43-2	
Benzyl chloride	ND	ug/m3	4.1	1.55		10/24/18 16:29	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.55		10/24/18 16:29	75-27-4	
Bromoform	ND	ug/m3	8.1	1.55		10/24/18 16:29	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.55		10/24/18 16:29	74-83-9	
1,3-Butadiene	ND	ug/m3	0.70	1.55		10/24/18 16:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		10/24/18 16:29	78-93-3	
Carbon disulfide	ND	ug/m3	0.98	1.55		10/24/18 16:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.55		10/24/18 16:29	56-23-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA375	Lab ID: 10452698005	Collected: 10/18/18 18:34	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Chlorobenzene	ND	ug/m3	1.5	1.55		10/24/18 16:29	108-90-7	
Chloroethane	ND	ug/m3	0.83	1.55		10/24/18 16:29	75-00-3	
Chloroform	ND	ug/m3	0.77	1.55		10/24/18 16:29	67-66-3	
Chloromethane	ND	ug/m3	0.65	1.55		10/24/18 16:29	74-87-3	
Cyclohexane	ND	ug/m3	2.7	1.55		10/24/18 16:29	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.55		10/24/18 16:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.55		10/24/18 16:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.55		10/24/18 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.55		10/24/18 16:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	1.55		10/24/18 16:29	106-46-7	
Dichlorodifluoromethane	<b>1.9</b>	ug/m3	1.6	1.55		10/24/18 16:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		10/24/18 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	1.55		10/24/18 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		10/24/18 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		10/24/18 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		10/24/18 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.55		10/24/18 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.55		10/24/18 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.55		10/24/18 16:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.55		10/24/18 16:29	76-14-2	
Ethanol	<b>7.5</b>	ug/m3	3.0	1.55		10/24/18 16:29	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.55		10/24/18 16:29	141-78-6	
Ethylbenzene	ND	ug/m3	1.4	1.55		10/24/18 16:29	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.55		10/24/18 16:29	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.55		10/24/18 16:29	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.4	1.55		10/24/18 16:29	87-68-3	
n-Hexane	ND	ug/m3	1.1	1.55		10/24/18 16:29	110-54-3	
2-Hexanone	ND	ug/m3	6.4	1.55		10/24/18 16:29	591-78-6	
Methylene Chloride	<b>6.2</b>	ug/m3	5.5	1.55		10/24/18 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.4	1.55		10/24/18 16:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.7	1.55		10/24/18 16:29	1634-04-4	
Naphthalene	ND	ug/m3	4.1	1.55		10/24/18 16:29	91-20-3	
2-Propanol	ND	ug/m3	3.9	1.55		10/24/18 16:29	67-63-0	
Propylene	ND	ug/m3	0.54	1.55		10/24/18 16:29	115-07-1	
Styrene	ND	ug/m3	1.3	1.55		10/24/18 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.55		10/24/18 16:29	79-34-5	
Tetrachloroethene	<b>42.1</b>	ug/m3	1.1	1.55		10/24/18 16:29	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.93	1.55		10/24/18 16:29	109-99-9	
Toluene	<b>3.3</b>	ug/m3	1.2	1.55		10/24/18 16:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.7	1.55		10/24/18 16:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		10/24/18 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.86	1.55		10/24/18 16:29	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.55		10/24/18 16:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	1.55		10/24/18 16:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.55		10/24/18 16:29	76-13-1	
1,2,4-Trimethylbenzene	<b>14.3</b>	ug/m3	1.5	1.55		10/24/18 16:29	95-63-6	
1,3,5-Trimethylbenzene	<b>3.0</b>	ug/m3	1.5	1.55		10/24/18 16:29	108-67-8	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA375		Lab ID: 10452698005	Collected: 10/18/18 18:34	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Vinyl acetate	ND	ug/m3	1.1	1.55		10/24/18 16:29	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	1.55		10/24/18 16:29	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	1.55		10/24/18 16:29	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.55		10/24/18 16:29	95-47-6	

Sample: LA375 cert 3611		Lab ID: 10452698006	Collected: 10/18/18 18:34	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	1.2	0.5		10/02/18 10:38	67-64-1	
Benzene	ND	ug/m3	0.16	0.5		10/02/18 10:38	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.5		10/02/18 10:38	100-44-7	
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/02/18 10:38	75-27-4	
Bromoform	ND	ug/m3	2.6	0.5		10/02/18 10:38	75-25-2	
Bromomethane	ND	ug/m3	0.39	0.5		10/02/18 10:38	74-83-9	
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/02/18 10:38	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/02/18 10:38	78-93-3	
Carbon disulfide	ND	ug/m3	0.32	0.5		10/02/18 10:38	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/02/18 10:38	56-23-5	
Chlorobenzene	ND	ug/m3	0.47	0.5		10/02/18 10:38	108-90-7	
Chloroethane	ND	ug/m3	0.27	0.5		10/02/18 10:38	75-00-3	
Chloroform	ND	ug/m3	0.25	0.5		10/02/18 10:38	67-66-3	
Chloromethane	ND	ug/m3	0.21	0.5		10/02/18 10:38	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.5		10/02/18 10:38	110-82-7	
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/02/18 10:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/02/18 10:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/02/18 10:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/02/18 10:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/02/18 10:38	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/02/18 10:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/02/18 10:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/02/18 10:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 10:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 10:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 10:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/02/18 10:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/02/18 10:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/02/18 10:38	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/02/18 10:38	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/02/18 10:38	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		10/02/18 10:38	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/02/18 10:38	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/02/18 10:38	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/02/18 10:38	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/02/18 10:38	87-68-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA375 cert 3611		Lab ID: 10452698006		Collected: 10/18/18 18:34		Received: 10/23/18 11:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Individual Can Certification</b>		Analytical Method: TO-15							
n-Hexane	ND	ug/m3	0.36	0.5		10/02/18 10:38	110-54-3		
2-Hexanone	ND	ug/m3	2.1	0.5		10/02/18 10:38	591-78-6		
Methylene Chloride	ND	ug/m3	1.8	0.5		10/02/18 10:38	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/02/18 10:38	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/02/18 10:38	1634-04-4		
Naphthalene	ND	ug/m3	1.3	0.5		10/02/18 10:38	91-20-3		
2-Propanol	ND	ug/m3	1.2	0.5		10/02/18 10:38	67-63-0		
Propylene	ND	ug/m3	0.18	0.5		10/02/18 10:38	115-07-1		
Styrene	ND	ug/m3	0.43	0.5		10/02/18 10:38	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/02/18 10:38	79-34-5		
Tetrachloroethene	ND	ug/m3	0.34	0.5		10/02/18 10:38	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/02/18 10:38	109-99-9		
Toluene	ND	ug/m3	0.38	0.5		10/02/18 10:38	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/02/18 10:38	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/02/18 10:38	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/02/18 10:38	79-00-5		
Trichloroethene	ND	ug/m3	0.27	0.5		10/02/18 10:38	79-01-6		
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/02/18 10:38	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/02/18 10:38	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/02/18 10:38	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/02/18 10:38	108-67-8		
Vinyl acetate	ND	ug/m3	0.36	0.5		10/02/18 10:38	108-05-4		
Vinyl chloride	ND	ug/m3	0.13	0.5		10/02/18 10:38	75-01-4		
m&p-Xylene	ND	ug/m3	0.88	0.5		10/02/18 10:38	179601-23-1		
o-Xylene	ND	ug/m3	0.44	0.5		10/02/18 10:38	95-47-6		

Sample: LA376		Lab ID: 10452698007		Collected: 10/18/18 18:53		Received: 10/23/18 11:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	<b>50.6</b>	ug/m3	3.7	1.55		10/24/18 16:58	67-64-1		
Benzene	ND	ug/m3	0.50	1.55		10/24/18 16:58	71-43-2		
Benzyl chloride	ND	ug/m3	4.1	1.55		10/24/18 16:58	100-44-7		
Bromodichloromethane	ND	ug/m3	2.1	1.55		10/24/18 16:58	75-27-4		
Bromoform	ND	ug/m3	8.1	1.55		10/24/18 16:58	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.55		10/24/18 16:58	74-83-9		
1,3-Butadiene	ND	ug/m3	0.70	1.55		10/24/18 16:58	106-99-0		
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		10/24/18 16:58	78-93-3		
Carbon disulfide	ND	ug/m3	0.98	1.55		10/24/18 16:58	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.55		10/24/18 16:58	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.55		10/24/18 16:58	108-90-7		
Chloroethane	ND	ug/m3	0.83	1.55		10/24/18 16:58	75-00-3		
Chloroform	<b>1.2</b>	ug/m3	0.77	1.55		10/24/18 16:58	67-66-3		
Chloromethane	<b>0.76</b>	ug/m3	0.65	1.55		10/24/18 16:58	74-87-3		
Cyclohexane	ND	ug/m3	2.7	1.55		10/24/18 16:58	110-82-7		

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA376	Lab ID: 10452698007	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Dibromochloromethane	ND	ug/m3	2.7	1.55		10/24/18 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.55		10/24/18 16:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.55		10/24/18 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.55		10/24/18 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	1.55		10/24/18 16:58	106-46-7	
Dichlorodifluoromethane	<b>2.2</b>	ug/m3	1.6	1.55		10/24/18 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		10/24/18 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	1.55		10/24/18 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		10/24/18 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		10/24/18 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		10/24/18 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.55		10/24/18 16:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.55		10/24/18 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.55		10/24/18 16:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.55		10/24/18 16:58	76-14-2	
Ethanol	<b>293</b>	ug/m3	3.0	1.55		10/24/18 16:58	64-17-5	
Ethyl acetate	<b>3.8</b>	ug/m3	1.1	1.55		10/24/18 16:58	141-78-6	
Ethylbenzene	ND	ug/m3	1.4	1.55		10/24/18 16:58	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.55		10/24/18 16:58	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.55		10/24/18 16:58	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.4	1.55		10/24/18 16:58	87-68-3	
n-Hexane	ND	ug/m3	1.1	1.55		10/24/18 16:58	110-54-3	
2-Hexanone	ND	ug/m3	6.4	1.55		10/24/18 16:58	591-78-6	
Methylene Chloride	<b>7.2</b>	ug/m3	5.5	1.55		10/24/18 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.4	1.55		10/24/18 16:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.7	1.55		10/24/18 16:58	1634-04-4	
Naphthalene	ND	ug/m3	4.1	1.55		10/24/18 16:58	91-20-3	
2-Propanol	<b>11.8</b>	ug/m3	3.9	1.55		10/24/18 16:58	67-63-0	
Propylene	ND	ug/m3	0.54	1.55		10/24/18 16:58	115-07-1	
Styrene	ND	ug/m3	1.3	1.55		10/24/18 16:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.55		10/24/18 16:58	79-34-5	
Tetrachloroethene	ND	ug/m3	1.1	1.55		10/24/18 16:58	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.93	1.55		10/24/18 16:58	109-99-9	
Toluene	<b>2.5</b>	ug/m3	1.2	1.55		10/24/18 16:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.7	1.55		10/24/18 16:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		10/24/18 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.86	1.55		10/24/18 16:58	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.55		10/24/18 16:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	1.55		10/24/18 16:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.55		10/24/18 16:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.55		10/24/18 16:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.55		10/24/18 16:58	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.55		10/24/18 16:58	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	1.55		10/24/18 16:58	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	1.55		10/24/18 16:58	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.55		10/24/18 16:58	95-47-6	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA376 cert 2717	Lab ID: 10452698008	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	1.2	0.5		10/03/18 12:00	67-64-1	
Benzene	ND	ug/m3	0.16	0.5		10/03/18 12:00	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.5		10/03/18 12:00	100-44-7	
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/03/18 12:00	75-27-4	
Bromoform	ND	ug/m3	2.6	0.5		10/03/18 12:00	75-25-2	
Bromomethane	ND	ug/m3	0.39	0.5		10/03/18 12:00	74-83-9	
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/03/18 12:00	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/03/18 12:00	78-93-3	
Carbon disulfide	ND	ug/m3	0.32	0.5		10/03/18 12:00	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/03/18 12:00	56-23-5	
Chlorobenzene	ND	ug/m3	0.47	0.5		10/03/18 12:00	108-90-7	
Chloroethane	ND	ug/m3	0.27	0.5		10/03/18 12:00	75-00-3	
Chloroform	ND	ug/m3	0.25	0.5		10/03/18 12:00	67-66-3	
Chloromethane	ND	ug/m3	0.21	0.5		10/03/18 12:00	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.5		10/03/18 12:00	110-82-7	
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/03/18 12:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/03/18 12:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 12:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 12:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/03/18 12:00	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/03/18 12:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/03/18 12:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/03/18 12:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 12:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 12:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 12:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/03/18 12:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 12:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 12:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/03/18 12:00	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/03/18 12:00	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		10/03/18 12:00	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/03/18 12:00	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/03/18 12:00	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/03/18 12:00	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/03/18 12:00	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/03/18 12:00	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/03/18 12:00	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.5		10/03/18 12:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/03/18 12:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/03/18 12:00	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/03/18 12:00	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/03/18 12:00	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/03/18 12:00	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/03/18 12:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/03/18 12:00	79-34-5	
Tetrachloroethene	ND	ug/m3	0.34	0.5		10/03/18 12:00	127-18-4	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA376 cert 2717		Lab ID: 10452698008	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/03/18 12:00	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/03/18 12:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/03/18 12:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/03/18 12:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/03/18 12:00	79-00-5	
Trichloroethene	ND	ug/m3	0.27	0.5		10/03/18 12:00	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/03/18 12:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/03/18 12:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 12:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 12:00	108-67-8	
Vinyl acetate	ND	ug/m3	0.36	0.5		10/03/18 12:00	108-05-4	
Vinyl chloride	ND	ug/m3	0.13	0.5		10/03/18 12:00	75-01-4	
m&p-Xylene	ND	ug/m3	0.88	0.5		10/03/18 12:00	179601-23-1	
o-Xylene	ND	ug/m3	0.44	0.5		10/03/18 12:00	95-47-6	

Sample: LA377		Lab ID: 10452698009	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	47.3	ug/m3	3.7	1.52		10/24/18 17:26	67-64-1	
Benzene	ND	ug/m3	0.49	1.52		10/24/18 17:26	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	1.52		10/24/18 17:26	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.52		10/24/18 17:26	75-27-4	
Bromoform	ND	ug/m3	8.0	1.52		10/24/18 17:26	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.52		10/24/18 17:26	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	1.52		10/24/18 17:26	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	1.52		10/24/18 17:26	78-93-3	
Carbon disulfide	ND	ug/m3	0.96	1.52		10/24/18 17:26	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.52		10/24/18 17:26	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.52		10/24/18 17:26	108-90-7	
Chloroethane	ND	ug/m3	0.81	1.52		10/24/18 17:26	75-00-3	
Chloroform	1.0	ug/m3	0.75	1.52		10/24/18 17:26	67-66-3	
Chloromethane	ND	ug/m3	0.64	1.52		10/24/18 17:26	74-87-3	
Cyclohexane	ND	ug/m3	2.7	1.52		10/24/18 17:26	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.52		10/24/18 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.52		10/24/18 17:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 17:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 17:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	1.52		10/24/18 17:26	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.5	1.52		10/24/18 17:26	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.52		10/24/18 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	1.52		10/24/18 17:26	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 17:26	156-60-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA377	Lab ID: 10452698009	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
1,2-Dichloropropane	ND	ug/m3	1.4	1.52		10/24/18 17:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 17:26	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.52		10/24/18 17:26	76-14-2	
Ethanol	281	ug/m3	2.9	1.52		10/24/18 17:26	64-17-5	
Ethyl acetate	3.4	ug/m3	1.1	1.52		10/24/18 17:26	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.52		10/24/18 17:26	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	1.52		10/24/18 17:26	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.52		10/24/18 17:26	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	1.52		10/24/18 17:26	87-68-3	
n-Hexane	ND	ug/m3	1.1	1.52		10/24/18 17:26	110-54-3	
2-Hexanone	ND	ug/m3	6.3	1.52		10/24/18 17:26	591-78-6	
Methylene Chloride	7.2	ug/m3	5.4	1.52		10/24/18 17:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	1.52		10/24/18 17:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	1.52		10/24/18 17:26	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.52		10/24/18 17:26	91-20-3	
2-Propanol	11.5	ug/m3	3.8	1.52		10/24/18 17:26	67-63-0	
Propylene	ND	ug/m3	0.53	1.52		10/24/18 17:26	115-07-1	
Styrene	ND	ug/m3	1.3	1.52		10/24/18 17:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.52		10/24/18 17:26	79-34-5	
Tetrachloroethene	ND	ug/m3	1.0	1.52		10/24/18 17:26	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.91	1.52		10/24/18 17:26	109-99-9	
Toluene	2.5	ug/m3	1.2	1.52		10/24/18 17:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	1.52		10/24/18 17:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.52		10/24/18 17:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.84	1.52		10/24/18 17:26	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.52		10/24/18 17:26	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.52		10/24/18 17:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.52		10/24/18 17:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 17:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 17:26	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.52		10/24/18 17:26	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	1.52		10/24/18 17:26	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	1.52		10/24/18 17:26	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.52		10/24/18 17:26	95-47-6	

Sample: LA377 cert 1666	Lab ID: 10452698010	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	1.2	0.5		09/26/18 09:26	67-64-1	
Benzene	ND	ug/m3	0.16	0.5		09/26/18 09:26	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.5		09/26/18 09:26	100-44-7	
Bromodichloromethane	ND	ug/m3	0.68	0.5		09/26/18 09:26	75-27-4	
Bromoform	ND	ug/m3	2.6	0.5		09/26/18 09:26	75-25-2	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA377 cert 1666	Lab ID: 10452698010	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Bromomethane	ND	ug/m3	0.39	0.5		09/26/18 09:26	74-83-9	
1,3-Butadiene	ND	ug/m3	0.22	0.5		09/26/18 09:26	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		09/26/18 09:26	78-93-3	
Carbon disulfide	ND	ug/m3	0.32	0.5		09/26/18 09:26	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.5		09/26/18 09:26	56-23-5	
Chlorobenzene	ND	ug/m3	0.47	0.5		09/26/18 09:26	108-90-7	
Chloroethane	ND	ug/m3	0.27	0.5		09/26/18 09:26	75-00-3	
Chloroform	ND	ug/m3	0.25	0.5		09/26/18 09:26	67-66-3	
Chloromethane	ND	ug/m3	0.21	0.5		09/26/18 09:26	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.5		09/26/18 09:26	110-82-7	
Dibromochloromethane	ND	ug/m3	0.86	0.5		09/26/18 09:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		09/26/18 09:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		09/26/18 09:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		09/26/18 09:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		09/26/18 09:26	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		09/26/18 09:26	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		09/26/18 09:26	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		09/26/18 09:26	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		09/26/18 09:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		09/26/18 09:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		09/26/18 09:26	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		09/26/18 09:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		09/26/18 09:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		09/26/18 09:26	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		09/26/18 09:26	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		09/26/18 09:26	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		09/26/18 09:26	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		09/26/18 09:26	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		09/26/18 09:26	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		09/26/18 09:26	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		09/26/18 09:26	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		09/26/18 09:26	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		09/26/18 09:26	591-78-6	
Methylene Chloride	ND	ug/m3	1.8	0.5		09/26/18 09:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		09/26/18 09:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		09/26/18 09:26	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		09/26/18 09:26	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		09/26/18 09:26	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		09/26/18 09:26	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		09/26/18 09:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		09/26/18 09:26	79-34-5	
Tetrachloroethene	ND	ug/m3	0.34	0.5		09/26/18 09:26	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		09/26/18 09:26	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		09/26/18 09:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		09/26/18 09:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		09/26/18 09:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		09/26/18 09:26	79-00-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA377 cert 1666		Lab ID: 10452698010	Collected: 10/18/18 18:53	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Trichloroethene	ND	ug/m3	0.27	0.5		09/26/18 09:26	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		09/26/18 09:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		09/26/18 09:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		09/26/18 09:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		09/26/18 09:26	108-67-8	
Vinyl acetate	ND	ug/m3	0.36	0.5		09/26/18 09:26	108-05-4	
Vinyl chloride	ND	ug/m3	0.13	0.5		09/26/18 09:26	75-01-4	
m&p-Xylene	ND	ug/m3	0.88	0.5		09/26/18 09:26	179601-23-1	
o-Xylene	ND	ug/m3	0.44	0.5		09/26/18 09:26	95-47-6	

Sample: LA383		Lab ID: 10452698011	Collected: 10/18/18 19:16	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	5.1	ug/m3	3.5	1.44		10/24/18 17:55	67-64-1	
Benzene	0.53	ug/m3	0.47	1.44		10/24/18 17:55	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	1.44		10/24/18 17:55	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.44		10/24/18 17:55	75-27-4	
Bromoform	ND	ug/m3	7.6	1.44		10/24/18 17:55	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.44		10/24/18 17:55	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	1.44		10/24/18 17:55	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		10/24/18 17:55	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		10/24/18 17:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	1.44		10/24/18 17:55	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.44		10/24/18 17:55	108-90-7	
Chloroethane	ND	ug/m3	0.77	1.44		10/24/18 17:55	75-00-3	
Chloroform	ND	ug/m3	0.71	1.44		10/24/18 17:55	67-66-3	
Chloromethane	ND	ug/m3	0.60	1.44		10/24/18 17:55	74-87-3	
Cyclohexane	ND	ug/m3	2.5	1.44		10/24/18 17:55	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.44		10/24/18 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	1.44		10/24/18 17:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.44		10/24/18 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.44		10/24/18 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.4	1.44		10/24/18 17:55	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.5	1.44		10/24/18 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		10/24/18 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		10/24/18 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		10/24/18 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		10/24/18 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		10/24/18 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.44		10/24/18 17:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.44		10/24/18 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.44		10/24/18 17:55	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.44		10/24/18 17:55	76-14-2	
Ethanol	4.7	ug/m3	2.8	1.44		10/24/18 17:55	64-17-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA383		Lab ID: 10452698011	Collected: 10/18/18 19:16	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Ethyl acetate	ND	ug/m3	1.1	1.44		10/24/18 17:55	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.44		10/24/18 17:55	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		10/24/18 17:55	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.44		10/24/18 17:55	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	1.44		10/24/18 17:55	87-68-3	
n-Hexane	ND	ug/m3	1.0	1.44		10/24/18 17:55	110-54-3	
2-Hexanone	ND	ug/m3	6.0	1.44		10/24/18 17:55	591-78-6	
Methylene Chloride	5.6	ug/m3	5.1	1.44		10/24/18 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	1.44		10/24/18 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	1.44		10/24/18 17:55	1634-04-4	
Naphthalene	ND	ug/m3	3.8	1.44		10/24/18 17:55	91-20-3	
2-Propanol	ND	ug/m3	3.6	1.44		10/24/18 17:55	67-63-0	
Propylene	ND	ug/m3	0.50	1.44		10/24/18 17:55	115-07-1	
Styrene	ND	ug/m3	1.2	1.44		10/24/18 17:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.44		10/24/18 17:55	79-34-5	
Tetrachloroethene	ND	ug/m3	0.99	1.44		10/24/18 17:55	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	1.44		10/24/18 17:55	109-99-9	
Toluene	1.7	ug/m3	1.1	1.44		10/24/18 17:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	1.44		10/24/18 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		10/24/18 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.80	1.44		10/24/18 17:55	79-00-5	
Trichloroethene	ND	ug/m3	1.6	1.44		10/24/18 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	1.44		10/24/18 17:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.44		10/24/18 17:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		10/24/18 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		10/24/18 17:55	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	1.44		10/24/18 17:55	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	1.44		10/24/18 17:55	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		10/24/18 17:55	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		10/24/18 17:55	95-47-6	

Sample: LA383 cert 3464		Lab ID: 10452698012	Collected: 10/18/18 19:16	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	1.2	0.5		10/03/18 10:59	67-64-1	
Benzene	ND	ug/m3	0.16	0.5		10/03/18 10:59	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.5		10/03/18 10:59	100-44-7	
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/03/18 10:59	75-27-4	
Bromoform	ND	ug/m3	2.6	0.5		10/03/18 10:59	75-25-2	
Bromomethane	ND	ug/m3	0.39	0.5		10/03/18 10:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/03/18 10:59	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/03/18 10:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.32	0.5		10/03/18 10:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/03/18 10:59	56-23-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA383 cert 3464	Lab ID: 10452698012	Collected: 10/18/18 19:16	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Chlorobenzene	ND	ug/m3	0.47	0.5		10/03/18 10:59	108-90-7	
Chloroethane	ND	ug/m3	0.27	0.5		10/03/18 10:59	75-00-3	
Chloroform	ND	ug/m3	0.25	0.5		10/03/18 10:59	67-66-3	
Chloromethane	ND	ug/m3	0.21	0.5		10/03/18 10:59	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.5		10/03/18 10:59	110-82-7	
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/03/18 10:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/03/18 10:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 10:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 10:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/03/18 10:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/03/18 10:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/03/18 10:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/03/18 10:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 10:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 10:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 10:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/03/18 10:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 10:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 10:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/03/18 10:59	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/03/18 10:59	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		10/03/18 10:59	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/03/18 10:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/03/18 10:59	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/03/18 10:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/03/18 10:59	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/03/18 10:59	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/03/18 10:59	591-78-6	
Methylene Chloride	ND	ug/m3	1.8	0.5		10/03/18 10:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/03/18 10:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/03/18 10:59	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/03/18 10:59	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/03/18 10:59	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/03/18 10:59	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/03/18 10:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/03/18 10:59	79-34-5	
Tetrachloroethene	ND	ug/m3	0.69	0.5		10/03/18 10:59	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/03/18 10:59	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/03/18 10:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/03/18 10:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/03/18 10:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/03/18 10:59	79-00-5	
Trichloroethene	ND	ug/m3	0.27	0.5		10/03/18 10:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/03/18 10:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/03/18 10:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 10:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 10:59	108-67-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452698

Sample: LA383 cert 3464		Lab ID: 10452698012		Collected: 10/18/18 19:16		Received: 10/23/18 11:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Individual Can Certification</b>		Analytical Method: TO-15							
Vinyl acetate	ND	ug/m3	0.36	0.5		10/03/18 10:59	108-05-4		
Vinyl chloride	ND	ug/m3	0.13	0.5		10/03/18 10:59	75-01-4		
m&p-Xylene	ND	ug/m3	0.88	0.5		10/03/18 10:59	179601-23-1		
o-Xylene	ND	ug/m3	0.44	0.5		10/03/18 10:59	95-47-6		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452698

QC Batch: 571294 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10452698001, 10452698003, 10452698005, 10452698007, 10452698009, 10452698011

METHOD BLANK: 3099439 Matrix: Air  
Associated Lab Samples: 10452698001, 10452698003, 10452698005, 10452698007, 10452698009, 10452698011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/24/18 14:59	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	10/24/18 14:59	
1,1,2-Trichloroethane	ug/m3	ND	0.56	10/24/18 14:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/24/18 14:59	
1,1-Dichloroethane	ug/m3	ND	0.82	10/24/18 14:59	
1,1-Dichloroethene	ug/m3	ND	0.81	10/24/18 14:59	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	10/24/18 14:59	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/24/18 14:59	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	10/24/18 14:59	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/24/18 14:59	
1,2-Dichloroethane	ug/m3	ND	0.41	10/24/18 14:59	
1,2-Dichloropropane	ug/m3	ND	0.94	10/24/18 14:59	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/24/18 14:59	
1,3-Butadiene	ug/m3	ND	0.45	10/24/18 14:59	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/24/18 14:59	
1,4-Dichlorobenzene	ug/m3	ND	3.1	10/24/18 14:59	
2-Butanone (MEK)	ug/m3	ND	3.0	10/24/18 14:59	
2-Hexanone	ug/m3	ND	4.2	10/24/18 14:59	
2-Propanol	ug/m3	ND	2.5	10/24/18 14:59	
4-Ethyltoluene	ug/m3	ND	2.5	10/24/18 14:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	10/24/18 14:59	
Acetone	ug/m3	ND	2.4	10/24/18 14:59	
Benzene	ug/m3	ND	0.32	10/24/18 14:59	
Benzyl chloride	ug/m3	ND	2.6	10/24/18 14:59	
Bromodichloromethane	ug/m3	ND	1.4	10/24/18 14:59	
Bromoform	ug/m3	ND	5.2	10/24/18 14:59	
Bromomethane	ug/m3	ND	0.79	10/24/18 14:59	
Carbon disulfide	ug/m3	ND	0.63	10/24/18 14:59	
Carbon tetrachloride	ug/m3	ND	1.3	10/24/18 14:59	
Chlorobenzene	ug/m3	ND	0.94	10/24/18 14:59	
Chloroethane	ug/m3	ND	0.54	10/24/18 14:59	
Chloroform	ug/m3	ND	0.50	10/24/18 14:59	
Chloromethane	ug/m3	ND	0.42	10/24/18 14:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/24/18 14:59	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/24/18 14:59	
Cyclohexane	ug/m3	ND	1.8	10/24/18 14:59	
Dibromochloromethane	ug/m3	ND	1.7	10/24/18 14:59	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/24/18 14:59	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	10/24/18 14:59	
Ethanol	ug/m3	ND	1.9	10/24/18 14:59	
Ethyl acetate	ug/m3	ND	0.73	10/24/18 14:59	

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452698

METHOD BLANK: 3099439 Matrix: Air  
Associated Lab Samples: 10452698001, 10452698003, 10452698005, 10452698007, 10452698009, 10452698011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	10/24/18 14:59	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	10/24/18 14:59	
m&p-Xylene	ug/m3	ND	1.8	10/24/18 14:59	
Methyl-tert-butyl ether	ug/m3	ND	3.7	10/24/18 14:59	
Methylene Chloride	ug/m3	ND	3.5	10/24/18 14:59	
n-Heptane	ug/m3	ND	0.83	10/24/18 14:59	
n-Hexane	ug/m3	ND	0.72	10/24/18 14:59	
Naphthalene	ug/m3	ND	2.7	10/24/18 14:59	
o-Xylene	ug/m3	ND	0.88	10/24/18 14:59	
Propylene	ug/m3	ND	0.35	10/24/18 14:59	
Styrene	ug/m3	ND	0.87	10/24/18 14:59	
Tetrachloroethene	ug/m3	ND	0.69	10/24/18 14:59	
Tetrahydrofuran	ug/m3	ND	0.60	10/24/18 14:59	
Toluene	ug/m3	ND	0.77	10/24/18 14:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/24/18 14:59	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/24/18 14:59	
Trichloroethene	ug/m3	ND	1.1	10/24/18 14:59	MN
Trichlorofluoromethane	ug/m3	ND	1.1	10/24/18 14:59	
Vinyl acetate	ug/m3	ND	0.72	10/24/18 14:59	
Vinyl chloride	ug/m3	ND	0.26	10/24/18 14:59	

LABORATORY CONTROL SAMPLE: 3099440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	48.4	85	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	63.1	90	70-146	
1,1,2-Trichloroethane	ug/m3	58.2	47.7	82	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	70.8	83	63-139	
1,1-Dichloroethane	ug/m3	42.4	36.9	87	70-134	
1,1-Dichloroethene	ug/m3	43.5	34.0	78	70-137	
1,2,4-Trichlorobenzene	ug/m3	74.7	58.3	78	60-133	
1,2,4-Trimethylbenzene	ug/m3	53	46.0	87	70-137	
1,2-Dibromoethane (EDB)	ug/m3	83.6	70.3	84	70-140	
1,2-Dichlorobenzene	ug/m3	59.9	58.1	97	70-137	
1,2-Dichloroethane	ug/m3	42.8	34.6	81	70-136	
1,2-Dichloropropane	ug/m3	48.4	41.9	87	70-136	
1,3,5-Trimethylbenzene	ug/m3	53.5	46.9	88	70-133	
1,3-Butadiene	ug/m3	22.5	18.5	82	64-141	
1,3-Dichlorobenzene	ug/m3	65.4	60.2	92	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	61.7	94	70-134	
2-Butanone (MEK)	ug/m3	32.4	28.7	89	65-143	
2-Hexanone	ug/m3	42.9	41.3	96	60-148	
2-Propanol	ug/m3	26.5	28.6	108	65-135	
4-Ethyltoluene	ug/m3	52	44.8	86	70-132	

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452698

LABORATORY CONTROL SAMPLE: 3099440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	36.7	87	70-135	
Acetone	ug/m3	26.6	24.4	92	59-132	
Benzene	ug/m3	34.4	29.0	84	70-134	
Benzyl chloride	ug/m3	56.3	50.3	89	56-150	
Bromodichloromethane	ug/m3	69.5	60.0	86	70-142	
Bromoform	ug/m3	97.7	75.3	77	69-150	
Bromomethane	ug/m3	32.9	33.7	102	61-141	
Carbon disulfide	ug/m3	32.9	28.9	88	66-134	
Carbon tetrachloride	ug/m3	65.9	49.1	75	60-145	
Chlorobenzene	ug/m3	49.6	43.9	88	70-130	
Chloroethane	ug/m3	26.8	25.7	96	65-143	
Chloroform	ug/m3	52.6	45.3	86	70-132	
Chloromethane	ug/m3	22.2	17.9	80	58-140	
cis-1,2-Dichloroethene	ug/m3	41.9	37.1	88	70-136	
cis-1,3-Dichloropropene	ug/m3	48	40.4	84	70-136	
Cyclohexane	ug/m3	35.3	31.6	89	70-133	
Dibromochloromethane	ug/m3	90	68.9	77	68-149	
Dichlorodifluoromethane	ug/m3	52.8	44.4	84	69-130	
Dichlorotetrafluoroethane	ug/m3	74.6	65.8	88	68-130	
Ethanol	ug/m3	21.1	19.8	94	65-146	
Ethyl acetate	ug/m3	38.8	33.2	85	68-136	
Ethylbenzene	ug/m3	45.5	39.1	86	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	105	97	59-140	
m&p-Xylene	ug/m3	45.9	41.4	90	70-133	
Methyl-tert-butyl ether	ug/m3	37.4	32.8	88	70-132	
Methylene Chloride	ug/m3	38.1	36.0	94	67-132	
n-Heptane	ug/m3	43.7	35.0	80	64-136	
n-Hexane	ug/m3	37.6	29.3	78	70-130	
Naphthalene	ug/m3	52.7	37.0	70	55-136	
o-Xylene	ug/m3	44.1	37.1	84	70-132	
Propylene	ug/m3	19.2	15.2	79	37-150	
Styrene	ug/m3	44.2	43.3	98	70-139	
Tetrachloroethene	ug/m3	70.3	61.9	88	70-133	
Tetrahydrofuran	ug/m3	30.3	31.6	105	62-141	
Toluene	ug/m3	39.4	33.4	85	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	37.8	91	70-132	
trans-1,3-Dichloropropene	ug/m3	44.8	39.1	87	70-135	
Trichloroethene	ug/m3	56.3	48.0	85	70-135	
Trichlorofluoromethane	ug/m3	58.8	49.5	84	59-140	
Vinyl acetate	ug/m3	35.1	23.8	68	57-150	
Vinyl chloride	ug/m3	28.1	24.2	86	70-141	

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## QUALIFIERS

Project: TO15  
Pace Project No.: 10452698

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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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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.

### ANALYTE QUALIFIERS

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO15  
Pace Project No.: 10452698

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10452698001	LA373	TO-15	571294		
10452698003	LA374	TO-15	571294		
10452698005	LA375	TO-15	571294		
10452698007	LA376	TO-15	571294		
10452698009	LA377	TO-15	571294		
10452698011	LA383	TO-15	571294		
10452698002	LA373 cert 2389	TO-15	571198		
10452698004	LA374 cert 2384	TO-15	571198		
10452698006	LA375 cert 3611	TO-15	571198		
10452698008	LA376 cert 2717	TO-15	571198		
10452698010	LA377 cert 1666	TO-15	571198		
10452698012	LA383 cert 3464	TO-15	571198		

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**AIR: CHAIN-OF-CUSTODY / A**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fit

**WO#: 10452698**



<b>Section A</b> Required Client Information: Company: <b>STATE OF INDIANA, IDEM</b> Address: <b>100 NORTH SENATE AVENUE</b> <b>INDIANAPOLIS, INDIANA</b> Email To: _____ Phone: <b>317-232-8877</b> Fax: _____ Requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: <b>DAVID HARRISON</b> Copy To: _____ Purchase Order No.: _____ Project Name: _____ Project Number: _____		<b>Section C</b> Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: <b>33458</b>		Program <input type="checkbox"/> <b>UST</b> <input type="checkbox"/> <b>Superfund</b> <input type="checkbox"/> <b>Emissions</b> <input type="checkbox"/> <b>Clean Air Act</b> <input type="checkbox"/> <b>Voluntary Clean Up</b> <input type="checkbox"/> <b>Dry Clean</b> <input type="checkbox"/> <b>RCRA</b> <input type="checkbox"/> <b>Other</b>								
<b>Section D</b> Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		Report Level II. III. IV. Other _____ Location of Sampling by State _____ Reporting Units ug/m <sup>3</sup> _____ PPBV _____ PPMV _____ Other _____		Method: <input type="checkbox"/> <b>PM10</b> <input type="checkbox"/> <b>3C - Fixed Gas (%)</b> <input type="checkbox"/> <b>TO-3 BTEX</b> <input type="checkbox"/> <b>TO-3M (Methane)</b> <input type="checkbox"/> <b>TO-14</b> <input type="checkbox"/> <b>TO-15 Full List VOCs</b> <input type="checkbox"/> <b>TO-15 Short List BTEX</b> <input type="checkbox"/> <b>TO-15 Short List Chlorinated</b> <input type="checkbox"/> <b>TO-15 Short List (Other)</b> Pace Lab ID								
ITEM #	MEDIA CODE	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS		
		DATE	TIME					DATE	TIME	DATE	TIME	DATE	TIME	Temp In °C
1	6LC	17 OCT 2018	7:07 PM	-29.0	-4.0	2389	0343	10/23/18	8:25 PM	10/23/18	11:30	Y	Y	Y
2	6LC	17 OCT 2018	8:01 PM	-27.0	-4.5	2384	1043					Y	Y	Y
3	6LC	17 OCT 2018	7:34 PM	-28.5	-5.0	3611	0021					Y	Y	Y
4	6LC	17 OCT 2018	7:53 PM	-32.0	-6.0	2717	0451					Y	Y	Y
5	6LC	17 OCT 2018	7:53 PM	-35.0	-4.0	3230	1273					Y	Y	Y
6	6LC	17 OCT 2018	6:53 PM	-28.0	-1.0	3464	1370					Y	Y	Y
7	6LC	17 OCT 2018	6:53 PM									Y	Y	Y
8												Y	Y	Y
9												Y	Y	Y
10												Y	Y	Y
11												Y	Y	Y
12												Y	Y	Y

Comments: \_\_\_\_\_  
 KENNETH C. M DANIEL  
 KENNETH C. M DANIEL  
 DATE SIGNED (MM/DD/YY)  
 OCTOBER 19 2018

ORIGINAL

Air Sample Condition Upon Receipt  
 Client Name: IDEM  
 Project #:

**WO#: 10452698**  
 PM: CT1 Due Date: 10/30/18  
 CLIENT: IDEM-OL0

Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other:

Tracking Number: 4545 9906 6520, 6530, 6541

Custody Seal on Cooler/Box Present?  Yes  No Seals intact?  Yes  No  
 Optional: Proj. Due Date: Proj. Name:

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

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used:  G87A9170600254  
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 10-23-18 AA

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 <input checked="" type="radio"/> N (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.

Samples Received: 3 T-f: Hays, FFET Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>LA 373</u>			<u>-3.5</u>	<u>+5</u>					
<u>374</u>			<u>-3.5</u>	<u>"</u>					
<u>375</u>			<u>-4</u>	<u>"</u>					
<u>376</u>			<u>-4</u>	<u>"</u>					
<u>377</u>	<u>1666</u>		<u>-3.5</u>	<u>"</u>					
<u>383</u>			<u>-2</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_  
 Field Data Required?  Yes  No

Project Manager Review: Cavalynne Hunt Date: 10/23/18  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)