PRECISION
ENVIRONMENTAL SERVICES, INC.
831 RT. 67, LOT 38 A
BALLSTON SPA, NY 12020
TEL: 518-885-4399
FAX: 518-885-4416
CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

20 YEARS
1991 - 2011

Via Electronic Mail: LJAlden@gw.dec.state.ny.us

June 15, 2015

Mr. Larry Alden, P.E.
Environmental Engineer 2
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Soil Vapor Monitoring and Remedial Status Report
Dambrose Cleaners
1517 Van Vranken Avenue
Schenectady, New York
NYS DEC Site No.: 447030

Dear Mr. Alden:

This letter serves as the status report for soil vapor monitoring and ongoing remediation conducted at the above referenced site during the time period of July 2014 – May 2015. Soil Vapor monitoring conducted on November 17, 2015 consisted of sampling Soil Vapor Extraction (SVE) lines as well as SVE Effluent and Sub Slab depressurization System (SSDS) Effluent via EPA Method TO-15. Remedial efforts during the monitoring period consisted of monitoring and maintaining a SVE system that has been in operation at the site since January 2011.

1.0 System Air Sampling
Samples were collected from the influent and effluent SVE system airstreams and effluent airstream of the sub slab depressurization system (SSDS) on November 17, 2014. All samples were collected in tedlar bags provided by the analytical laboratory, labeled, and submitted under chain of custody to Pace Analytical Labs, in Schenectady, NY to be analyzed via EPA Method TO-15. As indicated in the attached Table 1 (Summary of VOCs in System Air Analytical Results) several VOCs, including Tetrachloroethene, were detected within the collected samples. According to the data the most significant concentration of VOCs were originating from the northernmost trench of the SVE system (SVE-3). This is consistent with the recently collected data as indicated in Table 2 (PCE in Soil Vapor Over Time). A copy of the laboratory analytical report for the collected samples is included in Attachment 1.

2.0 Soil Vapor Extraction Status:
The purpose of the SVE system at this site is to mitigate the contaminant mass documented within the vadose zone below the site and capture fugitive VOCs. The vacuum and negative airflow induced by the SVE blower draws the contaminant mass located within the vadose zone upward to the horizontal SVE lines. Following extraction by the SVE blower, the raw recovered vapor is then discharged to the atmosphere. Currently, no method of off-gas treatment has been applied.

Regular SVE system operation and maintenance (O&M) visits have been performed during the monitoring period. During the O&M visits, field screening of the SVE effluent air stream was performed and recorded via photo-ionization detector (PID) analysis. The maximum hydrocarbon concentration detected within the SVE effluent air stream during the current monitoring period was 636 parts per billion (ppb) which was recorded on October 2, 2014. A summary of the SVE effluent concentrations recorded during the monitoring period is included in the attached Table 2 (SVE System Removal Summary).

4.0 Conclusions/Recommendations:

PES has been conducting routine O&M at the former Dambrose Cleaners site, which included SVE air sampling via EPA method TO-15. Concentrations of Tetrachloroethene (PCE) in air samples continue to fluctuate however a downward trend is present in data included on Tables 2 and 3. Routine monitoring and air sampling conducted of the remedial system does indicate that the system continues to process contaminant mass.

In order to continue to address the documented VOC contamination and monitor the reduction in contaminant concentrations at the site, and prevent the migration of these impacts to down gradient locations, PES recommends further operation of the soil vapor extraction system and routine groundwater monitoring. The next groundwater monitoring event is scheduled to take place in August 2015.

If you have any questions or comments regarding the above information, please contact the undersigned at (518) 885-4399.

Sincerely,
PRECISION ENVIRONMENTAL SERVICES, INC.

Kati N. Liloia
Geologist

Stephen M. Phelps
Project Manager

TABLES

Table 1
Summary of VOCs in System Air Analytical Results
Dambrose Cleaners
1517 Van Vranken Avenue
Schenectady, NY

Parameter (Method TO-15)	SAMPLE IDENTIFICATION				
	SVE-1	SVE-2	SVE-3	SVE Effluent	SSDS Effluent
1,1,1-Trichloroethane	<1.75	<1.09	<1.09	<1.09	<1.09
1,1,2,2-Tetrachloroethane	<2.20	<1.37	<1.37	<1.37	<1.37
1,1,2-Trichloroethane	<1.75	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichlorotriflouroethane	<2.45	<1.53	<1.53	<1.53	<1.53
1,1-Dichloroethane	<1.30	<0.81	<0.81	<0.81	<0.81
1,1-Dichloroethene	<1.27	<0.79	<0.79	<0.79	<0.79
1,2,4-Trichlorobenzene	<2.37	<1.48	<1.48	<1.48	<1.48
1,2,4-Trimethylbenzene	<1.57	<0.98	**3.93**	<0.98	**8.55**
1,2-Dibromoethane	<2.46	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.92	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<1.30	<0.81	<0.81	<0.81	<0.81
1,2-Dichloropropane	<1.48	<0.92	<0.92	<0.92	<0.92
1,2-Dichlorotetrafluorethane	<2.24	<1.40	<1.40	<1.40	<1.40
1,3,5-Trimethylbenzene	<1.57	<0.98	**1.08**	<0.98	**2.61**
1,3-Dichlorobenzene	<1.92	<1.20	<1.20	<1.20	<1.20
1,3-Hexachlorobutadiene	<3.41	<2.13	<2.13	<2.13	<2.13
1,4-Dichlorobenzene	<1.92	<1.20	<1.20	<1.20	<1.20
Acetone	**4.22**	<0.48	**8.31**	<.48	**4.68**
Benzene	<1.02	<0.64	**1.5**	**1.47**	**1.31**
Bromodichloromethane	<2.14	<1.34	<1.34	<1.34	<1.34
Bromoform	<3.31	<2.07	<2.07	<2.07	<2.07
Bromomethane	<1.24	<0.78	<0.78	<0.78	<0.78
Carbon Disulfide	<1.00	**2.49**	<0.62	**0.75**	**1.78**
Carbon Tetrachloride	<2.01	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<1.47	<0.92	<0.92	<0.92	<0.92
Chloroethane	<0.84	<0.53	<0.53	<0.53	<0.53
Chloroform	**10.4**	<0.98	<0.98	<0.98	<0.98
Chloromethane	**1.06**	**0.45**	<0.41	**1.07**	<0.41
cis-1,2-Dichloroethene	<1.27	<0.79	**8.09**	<0.79	**5.67**
cis-1,3-Dichloropropene	<1.45	<0.91	<0.91	<0.91	<0.91
Dibromochloromethane	<2.73	<1.70	<1.70	<1.70	<1.70
Dichlorodifluoromethane	**2.85**	**2.37**	**1.04**	**2.67**	**2.23**
Ethylbenzene	<1.39	<0.87	**1.82**	<0.87	**4.6**
m&p Xylene	<1.39	<0.87	**5.99**	**0.87**	**14.8**
Methyl butyl ketone	<1.31	<0.82	<0.82	<0.82	<0.82
Methyl ethyl ketone	<0.94	<0.59	**1.24**	<0.59	**0.97**
Methylene Chloride	**115**	**20.5**	**7.65**	**69**	**15.4**
Methyl isobutyl ketone	<1.31	<0.82	<0.82	<0.82	<0.82
Methyl-tert-butyl ether	<1.15	<0.72	<0.72	<0.72	<0.72
o-Xylene	<1.39	<0.87	**2.08**	<0.87	**5.21**
Styrene	<1.36	<0.85	**1.02**	<0.85	**0.98**
Tetrachloroethene	**4.56**	**35.1**	**1,210**	**46.8**	**847**
Toluene	**2.71**	**10.1**	**26.4**	**8.74**	**29.8**
trans-1,2-Dichloroethene	<1.27	<0.79	<0.79	<0.79	<0.79
trans-1,3-Dichloropropene	<1.45	<0.91	<0.91	<0.91	<0.91
Trichloroethene	<1.72	**1.61**	**21.6**	**1.83**	**23.9**
Trichlorofluoromethane	<1.80	<1.12	<1.12	<1.12	<1.12
Vinyl acetate	<1.13	<0.70	<0.70	<0.70	<0.70
Vinyl chloride	<0.82	<0.51	<0.51	<0.51	<0.51
Total Compounds	**140.80**	**72.62**	**1,301.75**	**133.20**	**969.49**

Samples collected on November 17, 2014
All Values are Reported in ug/m3
ND = Not Detected
Only parameters with detections summarized
Analytical Facility - Pace Analytical Laboratory, Inc. Schenectady, New York

Table 2
PCE in Soil Vapor Over Time
Dambrose Cleaners
1517 Van Vranken Avenue
Schenectady, NY

Date	Monitoring Point				
	SVE-1	SVE-2	SVE-3	SVE Effluent	SSDS Effluent
3/18/2011	1300	810	630		150
11/1/2011			345		965
3/15/2012	473	243	1510	772	1270
11/29/2012	443		2000	1900	669
8/23/2013	445	373	841	1750	779
11/17/2014	4.56	35.1	1,210	46.8	847

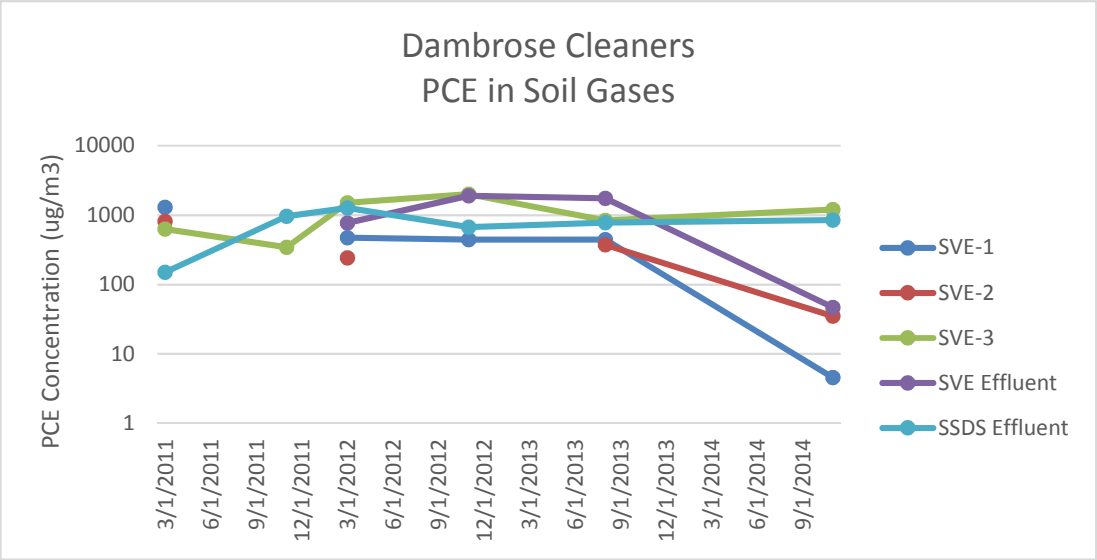

TABLE - 3
SVE System Removal Summary

Dambrose Cleaners
1517 Van Vranken Avenue
Schenectady, NY

Date	SVE Effluent Vapor Concentration* (ppb)	Air Flow (SCFM)
1/10/2011	650	96.00
1/11/2011	700	94.78
1/12/2011	1067	93.00
1/13/2011	750	94.82
1/14/2011**	1300	94.07
1/28/2011	400	94.59
2/18/2011	930	91.75
3/4/2011	206	95.10
3/18/2011	121	91.33
4/1/2011	174	92.25
4/15/2011	700	93.36
5/20/2011	340	88.63
6/22/2011	810	87.89
7/27/2011	847	85.66
9/8/2012**	-	-
10/7/2011	1200	92.86
11/1/2011	284	94.14
12/14/2011	0	95.47
1/16/2012	500	94.91
1/30/2012	200	95.53
2/21/2012	400	99.21
3/15/2012	0	96.92
4/9/2012	400	93.81
5/24/2012	414	89.05
6/11/2013	144	88.43
7/2/2013	-	88.39
8/23/2013	358	88.36
9/20/2013	217	88.74
10/24/2013	0	91.17
11/22/2013	131	95.16
12/30/2013	110	96.03
1/27/2014	200	95.70
3/7/2014	0	100.03
4/4/2014	0	94.14
5/12/2014	200	91.71
6/3/2014	185	89.52
7/7/2014	11	88.12
8/4/2014	500	89.09
9/2/2014	369	87.50
10/2/2014	636	92.38
11/3/2014	258	93.00
11/17/2014	0	95.22
12/26/2014	0	95.35
1/26/2015	0	95.57
2/9/2015	263	96.98
3/3/2015	0	95.70
4/13/2015	0	94.57
5/29/2015	219	92.47

* = As determined in field PID screening of airstream
** = System shutdown

ATTACHMENT - 1

Laboratory Analytical Report

Date Issued: December 03, 2014

Pace Analytical e-Report

Report prepared for:
PRECISION ENVIRONMENTAL SERVICES
831 STATE ROUTE 67
SUITE 38
BALLSTON SPA, NY 12020
CONTACT: PAUL SOKOLOWSKI

Project ID: FORMER DAMBROSE DRY CLEANERS - SITE NO. 447030
Sampling Date(s): November 17, 2014
Lab Report ID: 14110443
Client Service Contact: Nick Nicholas (518) 346-4592

Analysis Included:
EPA TO-15

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

December 03, 2014

CASE NARRATIVE

This data package (SDG ID: 14110443) consists of 5 air samples received on 11/17/2014. The samples are from Project Name: FORMER DAMBROSE DRY CLEANERS - SITE NO. 447030.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR45004	SYSTEM EFFLUENT	11/17/2014 10:03
AR45005	SVE-1	11/17/2014 10:20
AR45006	SVE-2	11/17/2014 10:30
AR45007	SVE-3	11/17/2014 10:39
AR45008	SSDS EFFLUENT	11/17/2014 10:48

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 11/17/2014.
(2.) All samples were received at the laboratory intact and within holding times.
(3.) All samples were received at the laboratory properly preserved, if applicable.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to Volatile Organic Compound analysis.

Respectfully submitted,

Nick Nicholas

Nick Nicholas
Project Manager

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be comp[illegible]

<14110443P1>

141104431

Page: 1 of 1

1467180

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Precision Environmental Services	Report To: Steve Phelps (PES)	Attention:
Address: 831 Route 67, Lot 38	Copy To:	Company Name: Same
Ballston Spa, NY 12020		Address:
Email To: sphelps@precisionenvironmentalny.com	Purchase Order No.:	Pace Quote Reference: C-S
Phone: (518)885-4379 Fax: (518)885-4410	Project Name: Former Dawbrose Dry Cleaners	Pace Project Manager: Client
Requested Due Date/TAT: Standard	Project Number: Site#: 447030	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: TO-15	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	System Effluent	AR	G			11/7/14	1003		1	X									X		AR45004
2	SVE-1	↓	↓			↓	1026		↓	↓									↓		AR45005
3	SVE-2	↓	↓			↓	1030		↓	↓									↓		AR45006
4	SVE-3	↓	↓			↓	1039		↓	↓									↓		AR45007
5	SSDS Effluent	↓	↓			↓	1048		↓	↓									↓		AR45008
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	11/7/14	11:22	[signature] (PACE)	11/7/14	11:22	11.5 (IR)	N	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Patrick Sokolowski

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/7/14

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical

Sample Condition Upon Receipt

<14110443PZ>

141104432

CLIENT NAME: PES

PROJECT : Site# 447030

COURIER: FedEx ☐ UPS ☐ Client ☑ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other ☐

ICE USED: Wet ☐ Blue ☐ None ☒

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐

COOLER TEMPERATURE (°C): 11.5

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No		6. TO-15
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☐Yes	☒No		12. For "System Effluent" coll. time on COC (10:03) does not match collector time on client label (10:05).
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: N/A — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

COMMENTS:

Sample Receipt form filled in: AJB 11/17/14

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 11/17/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 11/17/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 11/17/14

LOGIN_SCUR_FORM_052914_Rev01_01

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14110443

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: PRECISION ENVIRONMENTAL SERVICES
PROJECT: FORMER DAMBROSE DRY CLEANERS - SITE NO. 4470
LRF: 14110443
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 2 WEEK

RECEIVED DATE: 11/17/2014 11:22
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: P. SOKOLOWSKI/ PES
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: AMBIENT
TEMPERATURE(S): [5] 11.5 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: [3] YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: YES

COMMENTS:
NO ICE PRESENT IN COOLER.

FOR SAMPLE "SYSTEM EFFLUENT" COLLECTION TIME ON COC (10:03) DOES NOT MATCH COLLECTION TIME ON CLIENT LABEL (10:05).

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
SYSTEM EFFLUENT (AR45004)	2 WEEK 12-03-14	11/17/2014 10:03	Air	EPA TO-15	EPA TO-15	
SVE-1 (AR45005)	2 WEEK 12-03-14	11/17/2014 10:20	Air	EPA TO-15	EPA TO-15	
SVE-2 (AR45006)	2 WEEK 12-03-14	11/17/2014 10:30	Air	EPA TO-15	EPA TO-15	
SVE-3 (AR45007)	2 WEEK 12-03-14	11/17/2014 10:39	Air	EPA TO-15	EPA TO-15	
SSDS EFFLUENT (AR45008)	2 WEEK 12-03-14	11/17/2014 10:48	Air	EPA TO-15	EPA TO-15	

[1] The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2] The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3] Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4] Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5] All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

Subcontract Analysis

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:03:00 AM
Received : 11/18/2014 10:30:00 AM AR45004
Collected By CLIENT

Lab No. : 1411B44-001
Client Sample ID: SYSTEM EFFLUENT

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 9:08 AM
1,1,2,2-Tetrachloroethane	< 0.20	ppbv		1	< 1.37	µg/m³	11/19/2014 9:08 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	ppbv		1	< 1.53	µg/m³	11/19/2014 9:08 AM
1,1,2-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 9:08 AM
1,1-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 9:08 AM
1,1-Dichloroethene	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 9:08 AM
1,2,4-Trichlorobenzene	< 0.20	ppbv		1	< 1.48	µg/m³	11/19/2014 9:08 AM
1,2,4-Trimethylbenzene	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 9:08 AM
1,2-Dibromoethane	< 0.20	ppbv		1	< 1.54	µg/m³	11/19/2014 9:08 AM
1,2-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 9:08 AM
1,2-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 9:08 AM
1,2-Dichloroethene (cis)	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 9:08 AM
1,2-Dichloroethene (trans)	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 9:08 AM
1,2-Dichloropropane	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 9:08 AM
1,2-Dichlorotetrafluoroethane	< 0.20	ppbv		1	< 1.40	µg/m³	11/19/2014 9:08 AM
1,3,5-Trimethylbenzene	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 9:08 AM
1,3-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 9:08 AM
1,3-Dichloropropene (cis)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 9:08 AM
1,3-Dichloropropene (trans)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 9:08 AM
1,3-Hexachlorobutadiene	< 0.20	ppbv		1	< 2.13	µg/m³	11/19/2014 9:08 AM
1,4-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 9:08 AM
Acetone	< 0.20	ppbv		1	< 0.48	µg/m³	11/19/2014 9:08 AM
Benzene	0.46	ppbv		1	1.47	µg/m³	11/19/2014 9:08 AM
Bromodichloromethane	< 0.20	ppbv		1	< 1.34	µg/m³	11/19/2014 9:08 AM
Bromoform	< 0.20	ppbv	S	1	< 2.07	µg/m³	11/19/2014 9:08 AM
Bromomethane	< 0.20	ppbv		1	< 0.78	µg/m³	11/19/2014 9:08 AM
Carbon disulfide	0.24	ppbv		1	0.75	µg/m³	11/19/2014 9:08 AM
Carbon tetrachloride	< 0.20	ppbv		1	< 1.26	µg/m³	11/19/2014 9:08 AM
Chlorobenzene	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 9:08 AM
Chloroethane	< 0.20	ppbv		1	< 0.53	µg/m³	11/19/2014 9:08 AM
Chloroform	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 9:08 AM
Chloromethane	0.52	ppbv		1	1.07	µg/m³	11/19/2014 9:08 AM
Dibromochloromethane	< 0.20	ppbv		1	< 1.70	µg/m³	11/19/2014 9:08 AM
Dichlorodifluoromethane	0.54	ppbv		1	2.67	µg/m³	11/19/2014 9:08 AM
Ethylbenzene	< 0.20	ppbv		1	< 0.87	µg/m³	11/19/2014 9:08 AM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:03:00 AM
Received : 11/18/2014 10:30:00 AM AR45004
Collected By CLIENT

Lab No. : 1411B44-001
Client Sample ID: SYSTEM EFFLUENT

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Methyl butyl ketone	< 0.20	ppbv	+	1	< 0.82	µg/m³	11/19/2014 9:08 AM
Methyl ethyl ketone	< 0.20	ppbv		1	< 0.59	µg/m³	11/19/2014 9:08 AM
Methyl isobutyl ketone	< 0.20	ppbv		1	< 0.82	µg/m³	11/19/2014 9:08 AM
Methyl tert-butyl ether	< 0.20	ppbv		1	< 0.72	µg/m³	11/19/2014 9:08 AM
Methylene chloride	17.8	ppbv		1	69.0	µg/m³	11/19/2014 9:08 AM
Styrene	< 0.20	ppbv		1	< 0.85	µg/m³	11/19/2014 9:08 AM
Tetrachloroethene	6.90	ppbv		1	46.8	µg/m³	11/19/2014 9:08 AM
Toluene	2.32	ppbv		1	8.74	µg/m³	11/19/2014 9:08 AM
Trichloroethene	0.34	ppbv		1	1.83	µg/m³	11/19/2014 9:08 AM
Trichlorofluoromethane	< 0.20	ppbv		1	< 1.12	µg/m³	11/19/2014 9:08 AM
Vinyl acetate	< 0.20	ppbv		1	< 0.70	µg/m³	11/19/2014 9:08 AM
Vinyl chloride	< 0.20	ppbv		1	< 0.51	µg/m³	11/19/2014 9:08 AM
Xylenes (m&p)	0.20	ppbv		1	0.87	µg/m³	11/19/2014 9:08 AM
Xylenes (o)	< 0.20	ppbv		1	< 0.87	µg/m³	11/19/2014 9:08 AM
Surr: 4-Bromofluorobenzene	108	%REC	Limit 70-130		No M.W. Data		11/19/2014 9:08 AM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:20:00 AM
Received : 11/18/2014 10:30:00 AM AR45005
Collected By CLIENT

Lab No. : 1411B44-002
Client Sample ID: SVE-1

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.32	ppbv	D	1.6	< 1.75	µg/m³	11/19/2014 9:51 AM
1,1,2,2-Tetrachloroethane	< 0.32	ppbv	D	1.6	< 2.20	µg/m³	11/19/2014 9:51 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.32	ppbv	D	1.6	< 2.45	µg/m³	11/19/2014 9:51 AM
1,1,2-Trichloroethane	< 0.32	ppbv	D	1.6	< 1.75	µg/m³	11/19/2014 9:51 AM
1,1-Dichloroethane	< 0.32	ppbv	D	1.6	< 1.30	µg/m³	11/19/2014 9:51 AM
1,1-Dichloroethene	< 0.32	ppbv	D	1.6	< 1.27	µg/m³	11/19/2014 9:51 AM
1,2,4-Trichlorobenzene	< 0.32	ppbv	D	1.6	< 2.37	µg/m³	11/19/2014 9:51 AM
1,2,4-Trimethylbenzene	< 0.32	ppbv	D	1.6	< 1.57	µg/m³	11/19/2014 9:51 AM
1,2-Dibromoethane	< 0.32	ppbv	D	1.6	< 2.46	µg/m³	11/19/2014 9:51 AM
1,2-Dichlorobenzene	< 0.32	ppbv	D	1.6	< 1.92	µg/m³	11/19/2014 9:51 AM
1,2-Dichloroethane	< 0.32	ppbv	D	1.6	< 1.30	µg/m³	11/19/2014 9:51 AM
1,2-Dichloroethene (cis)	< 0.32	ppbv	D	1.6	< 1.27	µg/m³	11/19/2014 9:51 AM
1,2-Dichloroethene (trans)	< 0.32	ppbv	D	1.6	< 1.27	µg/m³	11/19/2014 9:51 AM
1,2-Dichloropropane	< 0.32	ppbv	D	1.6	< 1.48	µg/m³	11/19/2014 9:51 AM
1,2-Dichlorotetrafluoroethane	< 0.32	ppbv	D	1.6	< 2.24	µg/m³	11/19/2014 9:51 AM
1,3,5-Trimethylbenzene	< 0.32	ppbv	D	1.6	< 1.57	µg/m³	11/19/2014 9:51 AM
1,3-Dichlorobenzene	< 0.32	ppbv	D	1.6	< 1.92	µg/m³	11/19/2014 9:51 AM
1,3-Dichloropropene (cis)	< 0.32	ppbv	D	1.6	< 1.45	µg/m³	11/19/2014 9:51 AM
1,3-Dichloropropene (trans)	< 0.32	ppbv	D	1.6	< 1.45	µg/m³	11/19/2014 9:51 AM
1,3-Hexachlorobutadiene	< 0.32	ppbv	D	1.6	< 3.41	µg/m³	11/19/2014 9:51 AM
1,4-Dichlorobenzene	< 0.32	ppbv	D	1.6	< 1.92	µg/m³	11/19/2014 9:51 AM
Acetone	1.78	ppbv	D	1.6	4.22	µg/m³	11/19/2014 9:51 AM
Benzene	< 0.32	ppbv	D	1.6	< 1.02	µg/m³	11/19/2014 9:51 AM
Bromodichloromethane	< 0.32	ppbv	D	1.6	< 2.14	µg/m³	11/19/2014 9:51 AM
Bromoform	< 0.32	ppbv	DS	1.6	< 3.31	µg/m³	11/19/2014 9:51 AM
Bromomethane	< 0.32	ppbv	D	1.6	< 1.24	µg/m³	11/19/2014 9:51 AM
Carbon disulfide	< 0.32	ppbv	D	1.6	< 1.00	µg/m³	11/19/2014 9:51 AM
Carbon tetrachloride	< 0.32	ppbv	D	1.6	< 2.01	µg/m³	11/19/2014 9:51 AM
Chlorobenzene	< 0.32	ppbv	D	1.6	< 1.47	µg/m³	11/19/2014 9:51 AM
Chloroethane	< 0.32	ppbv	D	1.6	< 0.84	µg/m³	11/19/2014 9:51 AM
Chloroform	2.13	ppbv	D	1.6	10.4	µg/m³	11/19/2014 9:51 AM
Chloromethane	0.51	ppbv	D	1.6	1.06	µg/m³	11/19/2014 9:51 AM
Dibromochloromethane	< 0.32	ppbv	D	1.6	< 2.73	µg/m³	11/19/2014 9:51 AM
Dichlorodifluoromethane	0.58	ppbv	D	1.6	2.85	µg/m³	11/19/2014 9:51 AM
Ethylbenzene	< 0.32	ppbv	D	1.6	< 1.39	µg/m³	11/19/2014 9:51 AM

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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

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Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:20:00 AM
Received : 11/18/2014 10:30:00 AM AR45005
Collected By CLIENT

Lab No. : 1411B44-002
Client Sample ID: SVE-1

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Methyl butyl ketone	< 0.32	ppbv	D +	1.6	< 1.31	µg/m³	11/19/2014 9:51 AM
Methyl ethyl ketone	< 0.32	ppbv	D	1.6	< 0.94	µg/m³	11/19/2014 9:51 AM
Methyl isobutyl ketone	< 0.32	ppbv	D	1.6	< 1.31	µg/m³	11/19/2014 9:51 AM
Methyl tert-butyl ether	< 0.32	ppbv	D	1.6	< 1.15	µg/m³	11/19/2014 9:51 AM
Methylene chloride	29.7	ppbv	D	1.6	115	µg/m³	11/19/2014 9:51 AM
Styrene	< 0.32	ppbv	D	1.6	< 1.36	µg/m³	11/19/2014 9:51 AM
Tetrachloroethene	0.67	ppbv	D	1.6	4.56	µg/m³	11/19/2014 9:51 AM
Toluene	0.72	ppbv	D	1.6	2.71	µg/m³	11/19/2014 9:51 AM
Trichloroethene	< 0.32	ppbv	D	1.6	< 1.72	µg/m³	11/19/2014 9:51 AM
Trichlorofluoromethane	< 0.32	ppbv	D	1.6	< 1.80	µg/m³	11/19/2014 9:51 AM
Vinyl acetate	< 0.32	ppbv	D	1.6	< 1.13	µg/m³	11/19/2014 9:51 AM
Vinyl chloride	< 0.32	ppbv	D	1.6	< 0.82	µg/m³	11/19/2014 9:51 AM
Xylenes (m&p)	< 0.32	ppbv	D	1.6	< 1.39	µg/m³	11/19/2014 9:51 AM
Xylenes (o)	< 0.32	ppbv	D	1.6	< 1.39	µg/m³	11/19/2014 9:51 AM
Surr: 4-Bromofluorobenzene	113	%REC	D Limit	70-130	No M.W. Data		11/19/2014 9:51 AM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:30:00 AM
Received : 11/18/2014 10:30:00 AM AR45006
Collected By CLIENT

Lab No. : 1411B44-003
Client Sample ID: SVE-2

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 10:58 AM
1,1,2,2-Tetrachloroethane	< 0.20	ppbv		1	< 1.37	µg/m³	11/19/2014 10:58 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	ppbv		1	< 1.53	µg/m³	11/19/2014 10:58 AM
1,1,2-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 10:58 AM
1,1-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 10:58 AM
1,1-Dichloroethene	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 10:58 AM
1,2,4-Trichlorobenzene	< 0.20	ppbv		1	< 1.48	µg/m³	11/19/2014 10:58 AM
1,2,4-Trimethylbenzene	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 10:58 AM
1,2-Dibromoethane	< 0.20	ppbv		1	< 1.54	µg/m³	11/19/2014 10:58 AM
1,2-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 10:58 AM
1,2-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 10:58 AM
1,2-Dichloroethene (cis)	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 10:58 AM
1,2-Dichloroethene (trans)	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 10:58 AM
1,2-Dichloropropane	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 10:58 AM
1,2-Dichlorotetrafluoroethane	< 0.20	ppbv		1	< 1.40	µg/m³	11/19/2014 10:58 AM
1,3,5-Trimethylbenzene	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 10:58 AM
1,3-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 10:58 AM
1,3-Dichloropropene (cis)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 10:58 AM
1,3-Dichloropropene (trans)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 10:58 AM
1,3-Hexachlorobutadiene	< 0.20	ppbv		1	< 2.13	µg/m³	11/19/2014 10:58 AM
1,4-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 10:58 AM
Acetone	< 0.20	ppbv		1	< 0.48	µg/m³	11/19/2014 10:58 AM
Benzene	< 0.20	ppbv		1	< 0.64	µg/m³	11/19/2014 10:58 AM
Bromodichloromethane	< 0.20	ppbv		1	< 1.34	µg/m³	11/19/2014 10:58 AM
Bromoform	< 0.20	ppbv	S	1	< 2.07	µg/m³	11/19/2014 10:58 AM
Bromomethane	< 0.20	ppbv		1	< 0.78	µg/m³	11/19/2014 10:58 AM
Carbon disulfide	0.80	ppbv		1	2.49	µg/m³	11/19/2014 10:58 AM
Carbon tetrachloride	< 0.20	ppbv		1	< 1.26	µg/m³	11/19/2014 10:58 AM
Chlorobenzene	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 10:58 AM
Chloroethane	< 0.20	ppbv		1	< 0.53	µg/m³	11/19/2014 10:58 AM
Chloroform	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 10:58 AM
Chloromethane	0.22	ppbv		1	0.45	µg/m³	11/19/2014 10:58 AM
Dibromochloromethane	< 0.20	ppbv		1	< 1.70	µg/m³	11/19/2014 10:58 AM
Dichlorodifluoromethane	0.48	ppbv		1	2.37	µg/m³	11/19/2014 10:58 AM
Ethylbenzene	< 0.20	ppbv		1	< 0.87	µg/m³	11/19/2014 10:58 AM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
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N = Indicates presumptive evidence of compound

Project Manager

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Date Reported : 11/20/2014

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:30:00 AM
Received : 11/18/2014 10:30:00 AM AR45006
Collected By CLIENT

Lab No. : 1411B44-003
Client Sample ID: SVE-2

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Methyl butyl ketone	< 0.20	ppbv	+	1	< 0.82	µg/m³	11/19/2014 10:58 AM
Methyl ethyl ketone	< 0.20	ppbv		1	< 0.59	µg/m³	11/19/2014 10:58 AM
Methyl isobutyl ketone	< 0.20	ppbv		1	< 0.82	µg/m³	11/19/2014 10:58 AM
Methyl tert-butyl ether	< 0.20	ppbv		1	< 0.72	µg/m³	11/19/2014 10:58 AM
Methylene chloride	5.28	ppbv		1	20.5	µg/m³	11/19/2014 10:58 AM
Styrene	< 0.20	ppbv		1	< 0.85	µg/m³	11/19/2014 10:58 AM
Tetrachloroethene	5.17	ppbv		1	35.1	µg/m³	11/19/2014 10:58 AM
Toluene	2.68	ppbv		1	10.1	µg/m³	11/19/2014 10:58 AM
Trichloroethene	0.30	ppbv		1	1.61	µg/m³	11/19/2014 10:58 AM
Trichlorofluoromethane	< 0.20	ppbv		1	< 1.12	µg/m³	11/19/2014 10:58 AM
Vinyl acetate	< 0.20	ppbv		1	< 0.70	µg/m³	11/19/2014 10:58 AM
Vinyl chloride	< 0.20	ppbv		1	< 0.51	µg/m³	11/19/2014 10:58 AM
Xylenes (m&p)	< 0.20	ppbv		1	< 0.87	µg/m³	11/19/2014 10:58 AM
Xylenes (o)	< 0.20	ppbv		1	< 0.87	µg/m³	11/19/2014 10:58 AM
Surr: 4-Bromofluorobenzene	110	%REC	Limit 70-130		No M.W. Data		11/19/2014 10:58 AM

5

Qualifiers: E = Value above quantitation range, Value estimated.
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c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:39:00 AM
Received : 11/18/2014 10:30:00 AM AR45007
Collected By CLIENT

Lab No. : 1411B44-004
Client Sample ID: SVE-3

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 11:41 AM
1,1,2,2-Tetrachloroethane	< 0.20	ppbv		1	< 1.37	µg/m³	11/19/2014 11:41 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	ppbv		1	< 1.53	µg/m³	11/19/2014 11:41 AM
1,1,2-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 11:41 AM
1,1-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 11:41 AM
1,1-Dichloroethene	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 11:41 AM
1,2,4-Trichlorobenzene	< 0.20	ppbv		1	< 1.48	µg/m³	11/19/2014 11:41 AM
1,2,4-Trimethylbenzene	0.80	ppbv		1	3.93	µg/m³	11/19/2014 11:41 AM
1,2-Dibromoethane	< 0.20	ppbv		1	< 1.54	µg/m³	11/19/2014 11:41 AM
1,2-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 11:41 AM
1,2-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 11:41 AM
1,2-Dichloroethene (cis)	2.04	ppbv		1	8.09	µg/m³	11/19/2014 11:41 AM
1,2-Dichloroethene (trans)	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 11:41 AM
1,2-Dichloropropane	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 11:41 AM
1,2-Dichlorotetrafluoroethane	< 0.20	ppbv		1	< 1.40	µg/m³	11/19/2014 11:41 AM
1,3,5-Trimethylbenzene	0.22	ppbv		1	1.08	µg/m³	11/19/2014 11:41 AM
1,3-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 11:41 AM
1,3-Dichloropropene (cis)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 11:41 AM
1,3-Dichloropropene (trans)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 11:41 AM
1,3-Hexachlorobutadiene	< 0.20	ppbv		1	< 2.13	µg/m³	11/19/2014 11:41 AM
1,4-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 11:41 AM
Acetone	3.50	ppbv		1	8.31	µg/m³	11/19/2014 11:41 AM
Benzene	0.47	ppbv		1	1.50	µg/m³	11/19/2014 11:41 AM
Bromodichloromethane	< 0.20	ppbv		1	< 1.34	µg/m³	11/19/2014 11:41 AM
Bromoform	< 0.20	ppbv	S	1	< 2.07	µg/m³	11/19/2014 11:41 AM
Bromomethane	< 0.20	ppbv		1	< 0.78	µg/m³	11/19/2014 11:41 AM
Carbon disulfide	< 0.20	ppbv		1	< 0.62	µg/m³	11/19/2014 11:41 AM
Carbon tetrachloride	< 0.20	ppbv		1	< 1.26	µg/m³	11/19/2014 11:41 AM
Chlorobenzene	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 11:41 AM
Chloroethane	< 0.20	ppbv		1	< 0.53	µg/m³	11/19/2014 11:41 AM
Chloroform	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 11:41 AM
Chloromethane	< 0.20	ppbv		1	< 0.41	µg/m³	11/19/2014 11:41 AM
Dibromochloromethane	< 0.20	ppbv		1	< 1.70	µg/m³	11/19/2014 11:41 AM
Dichlorodifluoromethane	0.21	ppbv		1	1.04	µg/m³	11/19/2014 11:41 AM
Ethylbenzene	0.42	ppbv		1	1.82	µg/m³	11/19/2014 11:41 AM

Qualifiers: E = Value above quantitation range, Value estimated.
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N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

5

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:39:00 AM
Received : 11/18/2014 10:30:00 AM AR45007
Collected By CLIENT

Lab No. : 1411B44-004
Client Sample ID: SVE-3

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Methyl butyl ketone	< 0.20	ppbv	+	1	< 0.82	µg/m³	11/19/2014 11:41 AM
Methyl ethyl ketone	0.42	ppbv		1	1.24	µg/m³	11/19/2014 11:41 AM
Methyl isobutyl ketone	< 0.20	ppbv		1	< 0.82	µg/m³	11/19/2014 11:41 AM
Methyl tert-butyl ether	< 0.20	ppbv		1	< 0.72	µg/m³	11/19/2014 11:41 AM
Methylene chloride	1.97	ppbv		1	7.65	µg/m³	11/19/2014 11:41 AM
Styrene	0.24	ppbv		1	1.02	µg/m³	11/19/2014 11:41 AM
Tetrachloroethene	178	ppbv	D	10	1210	µg/m³	11/19/2014 1:47 PM
Toluene	7.00	ppbv		1	26.4	µg/m³	11/19/2014 11:41 AM
Trichloroethene	4.02	ppbv		1	21.6	µg/m³	11/19/2014 11:41 AM
Trichlorofluoromethane	< 0.20	ppbv		1	< 1.12	µg/m³	11/19/2014 11:41 AM
Vinyl acetate	< 0.20	ppbv		1	< 0.70	µg/m³	11/19/2014 11:41 AM
Vinyl chloride	< 0.20	ppbv		1	< 0.51	µg/m³	11/19/2014 11:41 AM
Xylenes (m&p)	1.38	ppbv		1	5.99	µg/m³	11/19/2014 11:41 AM
Xylenes (o)	0.48	ppbv		1	2.08	µg/m³	11/19/2014 11:41 AM
Surr: 4-Bromofluorobenzene	89.4	%REC	Limit 70-130		No M.W. Data		11/19/2014 11:41 AM

5

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Project Manager

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Date Reported : 11/20/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:48:00 AM
Received : 11/18/2014 10:30:00 AM AR45008
Collected By CLIENT

Lab No. : 1411B44-005
Client Sample ID: SSDS EFFLUENT

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 1:06 PM
1,1,2,2-Tetrachloroethane	< 0.20	ppbv		1	< 1.37	µg/m³	11/19/2014 1:06 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	ppbv		1	< 1.53	µg/m³	11/19/2014 1:06 PM
1,1,2-Trichloroethane	< 0.20	ppbv		1	< 1.09	µg/m³	11/19/2014 1:06 PM
1,1-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 1:06 PM
1,1-Dichloroethene	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 1:06 PM
1,2,4-Trichlorobenzene	< 0.20	ppbv		1	< 1.48	µg/m³	11/19/2014 1:06 PM
1,2,4-Trimethylbenzene	1.74	ppbv		1	8.55	µg/m³	11/19/2014 1:06 PM
1,2-Dibromoethane	< 0.20	ppbv		1	< 1.54	µg/m³	11/19/2014 1:06 PM
1,2-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 1:06 PM
1,2-Dichloroethane	< 0.20	ppbv		1	< 0.81	µg/m³	11/19/2014 1:06 PM
1,2-Dichloroethene (cis)	1.43	ppbv		1	5.67	µg/m³	11/19/2014 1:06 PM
1,2-Dichloroethene (trans)	< 0.20	ppbv		1	< 0.79	µg/m³	11/19/2014 1:06 PM
1,2-Dichloropropane	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 1:06 PM
1,2-Dichlorotetrafluoroethane	< 0.20	ppbv		1	< 1.40	µg/m³	11/19/2014 1:06 PM
1,3,5-Trimethylbenzene	0.53	ppbv		1	2.61	µg/m³	11/19/2014 1:06 PM
1,3-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 1:06 PM
1,3-Dichloropropene (cis)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 1:06 PM
1,3-Dichloropropene (trans)	< 0.20	ppbv		1	< 0.91	µg/m³	11/19/2014 1:06 PM
1,3-Hexachlorobutadiene	< 0.20	ppbv		1	< 2.13	µg/m³	11/19/2014 1:06 PM
1,4-Dichlorobenzene	< 0.20	ppbv		1	< 1.20	µg/m³	11/19/2014 1:06 PM
Acetone	1.97	ppbv		1	4.68	µg/m³	11/19/2014 1:06 PM
Benzene	0.41	ppbv		1	1.31	µg/m³	11/19/2014 1:06 PM
Bromodichloromethane	< 0.20	ppbv		1	< 1.34	µg/m³	11/19/2014 1:06 PM
Bromoform	< 0.20	ppbv	S	1	< 2.07	µg/m³	11/19/2014 1:06 PM
Bromomethane	< 0.20	ppbv		1	< 0.78	µg/m³	11/19/2014 1:06 PM
Carbon disulfide	0.57	ppbv		1	1.78	µg/m³	11/19/2014 1:06 PM
Carbon tetrachloride	< 0.20	ppbv		1	< 1.26	µg/m³	11/19/2014 1:06 PM
Chlorobenzene	< 0.20	ppbv		1	< 0.92	µg/m³	11/19/2014 1:06 PM
Chloroethane	< 0.20	ppbv		1	< 0.53	µg/m³	11/19/2014 1:06 PM
Chloroform	< 0.20	ppbv		1	< 0.98	µg/m³	11/19/2014 1:06 PM
Chloromethane	< 0.20	ppbv		1	< 0.41	µg/m³	11/19/2014 1:06 PM
Dibromochloromethane	< 0.20	ppbv		1	< 1.70	µg/m³	11/19/2014 1:06 PM
Dichlorodifluoromethane	0.45	ppbv		1	2.23	µg/m³	11/19/2014 1:06 PM
Ethylbenzene	1.06	ppbv		1	4.60	µg/m³	11/19/2014 1:06 PM

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Project Manager

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Date Reported : 11/20/2014

5

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 11/17/2014 10:48:00 AM
Received : 11/18/2014 10:30:00 AM AR45008
Collected By CLIENT

Lab No. : 1411B44-005
Client Sample ID: SSDS EFFLUENT

Sample Information:
Type : Air
Origin:

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Methyl butyl ketone	< 0.20	ppbv	+	1	< 0.82	µg/m³	11/19/2014 1:06 PM
Methyl ethyl ketone	0.33	ppbv		1	0.97	µg/m³	11/19/2014 1:06 PM
Methyl isobutyl ketone	< 0.20	ppbv		1	< 0.82	µg/m³	11/19/2014 1:06 PM
Methyl tert-butyl ether	< 0.20	ppbv		1	< 0.72	µg/m³	11/19/2014 1:06 PM
Methylene chloride	3.97	ppbv		1	15.4	µg/m³	11/19/2014 1:06 PM
Styrene	0.23	ppbv		1	0.98	µg/m³	11/19/2014 1:06 PM
Tetrachloroethene	125	ppbv	D	10	847	µg/m³	11/19/2014 2:29 PM
Toluene	7.92	ppbv		1	29.8	µg/m³	11/19/2014 1:06 PM
Trichloroethene	4.45	ppbv		1	23.9	µg/m³	11/19/2014 1:06 PM
Trichlorofluoromethane	< 0.20	ppbv		1	< 1.12	µg/m³	11/19/2014 1:06 PM
Vinyl acetate	< 0.20	ppbv		1	< 0.70	µg/m³	11/19/2014 1:06 PM
Vinyl chloride	< 0.20	ppbv		1	< 0.51	µg/m³	11/19/2014 1:06 PM
Xylenes (m&p)	3.41	ppbv		1	14.8	µg/m³	11/19/2014 1:06 PM
Xylenes (o)	1.20	ppbv		1	5.21	µg/m³	11/19/2014 1:06 PM
Surr: 4-Bromofluorobenzene	101	%REC	Limit 70-130		No M.W. Data		11/19/2014 1:06 PM

Qualifiers: E = Value above quantitation range, Value estimated.
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Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 11/20/2014

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOCS IN AIR **WorkOrder:** 1411B44

Method: TO-15 **Lab Batch ID:** R65596

Method Blank

RunID: 65596 SeqNo 1424223 Units: ppbv

Analysis Date: 11/18/2014 8:45:00 PM Analyst: BL

Analyte	Result	Rep Limit	Rep Qual
Dichlorodifluoromethane	< 0.20	0.20	
1,2-Dichlorotetrafluoroethane	< 0.20	0.20	
Chloromethane	< 0.20	0.20	
Bromomethane	< 0.20	0.20	
Vinyl chloride	< 0.20	0.20	
Chloroethane	< 0.20	0.20	
Methylene chloride	< 0.20	0.20	
Acetone	< 0.20	0.20	
Carbon disulfide	< 0.20	0.20	
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	0.20	
1,1-Dichloroethene	< 0.20	0.20	
1,1-Dichloroethane	< 0.20	0.20	
Trichlorofluoromethane	< 0.20	0.20	
Vinyl acetate	< 0.20	0.20	
Methyl tert-butyl ether	< 0.20	0.20	
1,2-Dichloroethene (trans)	< 0.20	0.20	
1,2-Dichloroethene (cis)	< 0.20	0.20	
Methyl ethyl ketone	< 0.20	0.20	
Chloroform	< 0.20	0.20	
1,2-Dichloroethane	< 0.20	0.20	
1,1,1-Trichloroethane	< 0.20	0.20	
Carbon tetrachloride	< 0.20	0.20	
Bromodichloromethane	< 0.20	0.20	
1,2-Dichloropropane	< 0.20	0.20	
1,3-Dichloropropene (cis)	< 0.20	0.20	
Trichloroethene	< 0.20	0.20	
Benzene	< 0.20	0.20	
Dibromochloromethane	< 0.20	0.20	
1,3-Dichloropropene (trans)	< 0.20	0.20	
1,1,2-Trichloroethane	< 0.20	0.20	
Bromoform	< 0.20	0.20	
Methyl isobutyl ketone	< 0.20	0.20	
Methyl butyl ketone	< 0.20	0.20	
1,2-Dibromoethane	< 0.20	0.20	
Tetrachloroethene	< 0.20	0.20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

5

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOCS IN AIR **WorkOrder:** 1411B44

Method: TO-15 **Lab Batch ID:** R65596

Method Blank

RunID: 65596 SeqNo 1424223 Units: ppbv

Analysis Date: 11/18/2014 8:45:00 PM Analyst: BL

Analyte	Result	Rep Limit	Rep Qual
1,1,2,2-Tetrachloroethane	< 0.20	0.20	
Toluene	< 0.20	0.20	
Chlorobenzene	< 0.20	0.20	
Ethylbenzene	< 0.20	0.20	
Styrene	< 0.20	0.20	
Xylenes (m&p)	< 0.20	0.20	
Xylenes (o)	< 0.20	0.20	
1,3,5-Trimethylbenzene	< 0.20	0.20	
1,2,4-Trimethylbenzene	< 0.20	0.20	
1,3-Dichlorobenzene	< 0.20	0.20	
1,4-Dichlorobenzene	< 0.20	0.20	
1,2-Dichlorobenzene	< 0.20	0.20	
1,3-Hexachlorobutadiene	< 0.20	0.20	
1,2,4-Trichlorobenzene	< 0.20	0.20	
Surr: 4-Bromofluorobenzene	8.79	0.50	

Laboratory Control Sample (LCS/LFB)

RunID: 65596 SeqNo 1424224 Units: ppbv

Analysis Date: 11/18/2014 9:29:00 PM Analyst: BL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Dichlorodifluoromethane	10.0	11.0	110						70	130	
1,2-Dichlorotetrafluoroethane	10.0	9.74	97.4						70	130	
Chloromethane	10.0	12.3	123						70	130	
Bromomethane	10.0	11.3	113						70	130	
Vinyl chloride	10.0	10.7	107						70	130	
Chloroethane	10.0	11.8	118						70	130	
Methylene chloride	10.0	8.58	85.8						70	130	
Acetone	10.0	9.66	96.6						70	130	
Carbon disulfide	10.0	12.7	127						70	130	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.6	106						70	130	
1,1-Dichloroethene	10.0	11.7	117						70	130	
1,1-Dichloroethane	10.0	12.4	124						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOCS IN AIR **WorkOrder:** 1411B44

Method: TO-15 **Lab Batch ID:** R65596

Laboratory Control Sample (LCS/LFB)

RunID: 65596 SeqNo 1424224 Units: ppbv

Analysis Date: 11/18/2014 9:29:00 PM Analyst: BL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Trichlorofluoromethane	10.0	9.08	90.8						70	130	
Vinyl acetate	10.0	12.4	124						70	130	
Methyl tert-butyl ether	10.0	10.9	109						70	130	
1,2-Dichloroethene (trans)	10.0	11.6	116						70	130	
1,2-Dichloroethene (cis)	10.0	11.4	114						70	130	
Methyl ethyl ketone	10.0	11.4	114						70	130	
Chloroform	10.0	11.2	112						70	130	
1,2-Dichloroethane	10.0	10.1	101						70	130	
1,1,1-Trichloroethane	10.0	9.98	99.8						70	130	
Carbon tetrachloride	10.0	9.58	95.8						70	130	
Bromodichloromethane	10.0	9.76	97.6						70	130	
1,2-Dichloropropane	10.0	11.1	111						70	130	
1,3-Dichloropropene (cis)	10.0	10.9	109						70	130	
Trichloroethene	10.0	9.63	96.3						70	130	
Benzene	10.0	11.2	112						70	130	
Dibromochloromethane	10.0	8.11	81.1						70	130	
1,3-Dichloropropene (trans)	10.0	10.4	104						70	130	
1,1,2-Trichloroethane	10.0	9.38	93.8						70	130	
Bromoform	10.0	6.60	66.0						70	130	S
Methyl isobutyl ketone	10.0	10.6	106						70	130	
Methyl butyl ketone	10.0	11.0	110						70	130	
1,2-Dibromoethane	10.0	8.13	81.3						70	130	
Tetrachloroethene	10.0	7.22	72.2						70	130	
1,1,2,2-Tetrachloroethane	10.0	8.84	88.4						70	130	
Toluene	10.0	9.58	95.8						70	130	
Chlorobenzene	10.0	8.70	87.0						70	130	
Ethylbenzene	10.0	9.19	91.9						70	130	
Styrene	10.0	7.97	79.7						70	130	
Xylenes (m&p)	20.00	17.4	86.8						70	130	
Xylenes (o)	10.0	8.91	89.1						70	130	
1,3,5-Trimethylbenzene	10.0	8.63	86.3						70	130	
1,2,4-Trimethylbenzene	10.0	8.63	86.3						70	130	
1,3-Dichlorobenzene	10.0	7.81	78.1						70	130	
1,4-Dichlorobenzene	10.0	8.01	80.1						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOCS IN AIR **WorkOrder:** 1411B44

Method: TO-15 **Lab Batch ID:** R65596

Laboratory Control Sample (LCS/LFB)

RunID: 65596 SeqNo 1424224 Units: ppbv

Analysis Date: 11/18/2014 9:29:00 PM Analyst: BL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
1,2-Dichlorobenzene	10.0	8.24	82.4						70	130	
1,3-Hexachlorobutadiene	10.0	7.84	78.4						70	130	
1,2,4-Trichlorobenzene	10.0	7.30	73.0						70	130	
Surr: 4-Bromofluorobenzene	10.0	12.1	121						70	130	

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Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **PACE-NY** Date and Time Received: **11/18/2014 10:30:00 AM**

Work Order Number: **1411B44** RcptNo: **1** Received by: **Jamie Spero**

Completed by: Reviewed by:

Completed Date: 11/18/2014 11:00:03 AM Reviewed Date: 11/18/2014 1:48:53 PM

Carrier name: FedEx

Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐				
Is it clear what analyses were requested?	Yes ☑	No ☐				
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present	☑		
Samples in proper container/bottle?	Yes ☑	No ☐				
Were correct preservatives used and noted?	Yes ☑	No ☐	NA	☐		
Preservative added to bottles:						
Sample Condition?	Intact ☑	Broken ☐	Leaking	☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
Were container labels complete (ID, Pres, Date)?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Was an attempt made to cool the samples?	Yes ☑	No ☐	NA	☐		
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	NA	☐		
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☑	To	°		
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials	☑		
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA	☑		
Water - pH acceptable upon receipt?	Yes ☐	No ☐	No Water	☑		
Are Samples considered acceptable?	Yes ☑	No ☐				
Custody Seals present?	Yes ☐	No ☑				
Airbill or Sticker?	Air Bill ☑	Sticker ☐	Not Present	☐		
Airbill No:	623146886970					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

air samples

CorrectiveAction:

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Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1411B44

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

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Pace LI

CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 14110443
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival.
Call for details.

CLIENT (REPORTS TO BE SENT TO): PACE	PROJECT#/PROJECT NAME: 14110443
PROJECT MANAGER: NICHOLAS.NICHOLAS@PACELABS.COM	LOCATION (CITY/STATE) ADDRESS: NY
SAMPLED BY: (Please Print)	REQUIRED TURN AROUND TIME: 12/2/2014
SAMPLING FIRM:	NAME OF COURIER (IF USED):
ELECTRONIC RESULTS: NICOLE.JOHNSON@PACELABS.COI	

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	EPA TO-15	PRESERVATIVE CODE	BOTTLE TYPE	BOTTLE SIZE	REMARKS
SYSTEM EFFLUENT	11/17/14	10:03	A	GRAB	AR45004	1	X				14113414-001A
SVE-1	11/17/14	10:20	A	GRAB	AR45005	1	X				2
SVE-2	11/17/14	10:30	A	GRAB	AR45006	1	X				3
SVE-3	11/17/14	10:39	A	GRAB	AR45007	1	X				4
SSDS EFFLUENT	11/17/14	10:48	A	GRAB	AR45008	1	X				5

AMBIENT OR CHILLED: TEMP: COC TAPE: (Y) N PROPERLY PRESERVED: Y N

RECEIVED BROKEN OR LEAKING: Y N COC DISCREPANCIES: Y N RECVD W/I HOLDING TIMES: Y N

OTHER NOTES: Analytical Report [LEVEL-2] EDD: Excel Standard

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE Fedex	SIGNATURE Fedex	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME Patricia Nguyen	PRINTED NAME	PRINTED NAME	PRINTED NAME Jump Spec	PRINTED NAME	PRINTED NAME
COMPANY Pace	COMPANY	COMPANY	COMPANY PACE	COMPANY	COMPANY
DATE/TIME 11/17/14 15:00	DATE/TIME	DATE/TIME	DATE/TIME 11/18/14 1030	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS