

**DATA USABILITY SUMMARY REPORT
PENDAFLEX SITE, NEW YORK**

Client: EA Engineering, Science & Technology, Inc., Syracuse, New York
SDG: L0909636
Laboratory: Alpha Analytical, Mansfield, Massachusetts
Site: Pendaflex Site, Garden City, New York
Date: September 8, 2009

EDS ID	Client ID	Laboratory ID	Matrix
1	1-30-185-SV01	L0909636-01	Air
2	1-30-185-SV02	L0909636-02	Air
3	1-30-185-SV03	L0909636-03	Air
4	1-30-185-SV04	L0909636-04	Air
5	1-30-185-SV-DUP	L0909636-05	Air

A Data Usability Summary Review was performed on the analytical data for five air samples collected by EA Engineering, Science and Technology, Inc. at the Pendaflex Site in Garden City, New York. The samples were analyzed under “*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B*”, Compendium Method TO-15, “*Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*”.

The data have been evaluated according to the protocols and quality control (QC) requirements of the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Volatile Organics of Ambient Air on Canisters by Method TO-15, and the reviewer's professional judgment.

Organics

The following items/criteria were reviewed for this report:

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms
- Canister Certification Blanks
- Canister Certification Pressures Differences
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- Laboratory Control Sample (LCS) recoveries
- Surrogate Compound Recoveries
- GC/MS Tuning
- Method Blank Contamination
- Initial and Continuing Calibration Summaries

- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

The items listed above were technically and contractually in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

Overall Evaluation of Data and Potential Usability Issues

There were no rejections of data.

Overall the remaining data is acceptable for the intended purposes. Data were qualified for the following deficiencies.

- One compound was qualified as estimated in one sample due to a compound quantitation issue.

Data Completeness

- All criteria were met.

Cover letter, Narrative, and Data Reporting Forms

- All criteria were met

Canister Certification Blanks

- The batch blank checks were non-detect or < RL.

Canister Certification Pressures Differences

- All criteria were met.

Chains-of-Custody and Traffic Reports

- All criteria were met

Holding Times

- All samples were analyzed within 30 days for air samples.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	Deficiency %R	Qualifier	Affected Samples
LCS	Vinyl acetate	133%	None	All ND

Surrogate Compound Recoveries

- All samples exhibited acceptable surrogate recoveries.

GC/MS Tuning

- All criteria were met.

Method Blank

- The method blanks were free of contamination.

Field and Trip Blank

- There were no field QC samples associated with the samples in this report.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Compound Quantitation

- EDS sample ID# 1 exhibited a high concentration of trichloroethene which exceeded the linear range of calibration and was flagged (E) by the laboratory. The laboratory reanalyzed this sample at a 2.5X dilution. The dilution result should be used for reporting.

- EDS sample ID# 2 exhibited high concentrations of several compounds which exceeded the linear range of calibration and were flagged (E) by the laboratory. The laboratory reanalyzed this sample at a 71.89X dilution. The dilution results for these compounds should be used for reporting.
- EDS sample ID# 5 was analyzed at a 74.29X dilution due to a high concentration of acetone and was qualified estimated (J) due to acetone co-elution with a non-target peak.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

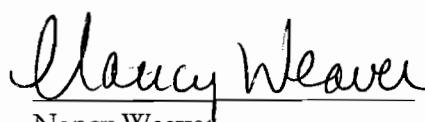
- Field duplicate results are summarized below.

Compound	1-30-185-SV02 ug/m ³	1-30-185-SV-DUP ug/m ³	RPD	Qualifier
Acetone	65.2	65.7	1%	None
Benzene	14.4 U	14.8	NC	None
cis-1,2-Dichloroethene	151	140	8%	None
Ethylbenzene	25.8	22.0	16%	None
m,p-Xylene	58.0	47.9	19%	None
o-Xylene	16.4	14.8 U	NC	None
n-Hexane	14.4 U	16.2	NC	None
Propylene	34.4	47.7	32%	None
Tetrachloroethene	4000	3380	17%	None
Touene	24.7	24.0	3%	None
Trichloroethene	574	504	13%	None

Package Summary:

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:


Nancy Weaver
Senior Chemist

Dated: 9/11/09

Data Qualifiers

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was analyzed for, but was not detected above the sample reporting limit.
- R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

SAMPLE RESULTS

Lab ID: L0909636-01
 Client ID: 1-30-185-SV01
 Sample Location: GARDEN CITY, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/18/09 01:20
 Analyst: RY

Date Collected: 07/14/09 20:10
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	6.77	0.200	33.2	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	1.87	0.200	9.20	0.982		1
1,3-Butadiene	1.48	0.200	3.27	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	2.33	0.200	6.88	0.589		1
2-Hexanone	ND	0.200	ND	0.819		1
3-Chloropropene	ND	0.200	ND	0.626		1
4-Ethyltoluene	1.62	0.200	7.95	0.982		1
Acetone	37.9	0.500	90.0	1.19		1
Benzene	0.804	0.200	2.57	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

nw
9/8/09



Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

SAMPLE RESULTS

Lab ID: L0909636-01
 Client ID: 1-30-185-SV01
 Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:10
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	1.31	0.200	4.08	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.416	0.200	0.858	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.218	0.200	0.750	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.492	0.200	2.43	0.988		1
Ethanol	ND	2.50	ND	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	6.92	0.200	30.0	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Isopropanol	0.939	0.500	2.31	1.23		1
Methylene chloride	0.544	0.500	1.89	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	22.1	0.400	96.0	1.74		1
o-Xylene	6.35	0.200	27.5	0.868		1
Heptane	0.607	0.200	2.48	0.819		1
n-Hexane	1.05	0.200	3.70	0.704		1
Propylene	22.8	0.200	39.2	0.344		1

NW
9/8/09



Project Name: PENDAFLEX

Lab Number: L0909636

Project Number: 14368.35

Report Date: 07/22/09

SAMPLE RESULTS

Lab ID: L0909636-01
 Client ID: 1-30-185-SV01
 Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:10
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	3.45	0.200	14.7	0.851		1
Tetrachloroethene	0.374	0.200	2.54	1.36		1
Tetrahydrofuran	0.463	0.200	1.36	0.589		1
Toluene	11.6	0.200	43.8	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	104	100	0.200 0.500	585 559	4.07 2.68 F	→ 2.5
Trichlorofluoromethane	0.307	0.200	1.72	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1



nw
9/8/09

Project Name: PENDAFLEX
Project Number: 14368.35

Lab Number: L0909636
Report Date: 07/22/09

SAMPLE RESULTS

Lab ID: L0909636-01 R/D
Client ID: 1-30-185-SV01
Sample Location: GARDEN CITY, NY
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 07/18/09 10:23
Analyst: RY

Date Collected: 07/14/09 20:10
Date Received: 07/16/09
Field Prep: Not Specified

Use original

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Trichloroethene	104	0.500	559	2.68		2.5

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Project Name: PENDAFLEX

Lab Number: L0909636

Project Number: 14368.35

Report Date: 07/22/09

2

SAMPLE RESULTS

Lab ID: L0909636-02 RID
 Client ID: 1-30-185-SV02
 Sample Location: GARDEN CITY, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/18/09 11:01
 Analyst: RY

Date Collected: 07/14/09 20:25
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	14.4	ND	78.4		71.89
1,1,2,2-Tetrachloroethane	ND	14.4	ND	98.6		71.89
1,1,2-Trichloroethane	ND	14.4	ND	78.4		71.89
1,1-Dichloroethane	ND	14.4	ND	58.1		71.89
1,1-Dichloroethene	ND	14.4	ND	57.0		71.89
1,2,4-Trichlorobenzene	ND	14.4	ND	107.		71.89
1,2,4-Trimethylbenzene	ND	14.4	ND	70.6		71.89
1,2-Dibromoethane	ND	14.4	ND	110.		71.89
1,2-Dichlorobenzene	ND	14.4	ND	86.4		71.89
1,2-Dichloroethane	ND	14.4	ND	58.1		71.89
1,2-Dichloropropane	ND	14.4	ND	66.4		71.89
1,3,5-Trimethybenzene	ND	14.4	ND	70.6		71.89
1,3-Butadiene	ND	14.4	ND	31.8		71.89
1,3-Dichlorobenzene	ND	14.4	ND	86.4		71.89
1,4-Dichlorobenzene	ND	14.4	ND	86.4		71.89
1,4-Dioxane	ND	14.4	ND	51.8		71.89
2,2,4-Trimethylpentane	ND	14.4	ND	67.1		71.89
2-Butanone	ND	14.4	ND	42.4		71.89
2-Hexanone	ND	14.4	ND	58.8		71.89
3-Chloropropene	ND	14.4	ND	45.0		71.89
4-Ethyltoluene	ND	14.4	ND	70.6		71.89
Acetone	65.2	35.9	155	85.3		71.89
Benzene	ND	14.4	ND	45.9		71.89
Benzyl chloride	ND	14.4	ND	74.4		71.89
Bromodichloromethane	ND	14.4	ND	96.3		71.89



nw
9/18/09

Project Name: PENDAFLEX
Project Number: 14368.35

Lab Number: L0909636
Report Date: 07/22/09

2

SAMPLE RESULTS

Lab ID: L0909636-02 R\D
Client ID: 1-30-185-SV02
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:25
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	14.4	ND	148.		71.89
Bromomethane	ND	14.4	ND	55.8		71.89
Carbon disulfide	ND	14.4	ND	44.7		71.89
Carbon tetrachloride	ND	14.4	ND	90.4		71.89
Chlorobenzene	ND	14.4	ND	66.1		71.89
Chloroethane	ND	14.4	ND	37.9		71.89
Chloroform	ND	14.4	ND	70.1		71.89
Chloromethane	ND	14.4	ND	29.7		71.89
cis-1,2-Dichloroethene	151	14.4	598	57.0		71.89
cis-1,3-Dichloropropene	ND	14.4	ND	65.2		71.89
Cyclohexane	ND	14.4	ND	49.4		71.89
Dibromochloromethane	ND	14.4	ND	122.		71.89
Dichlorodifluoromethane	ND	14.4	ND	71.0		71.89
Ethanol	ND	180	ND	338		71.89
Ethyl Acetate	ND	35.9	ND	129.		71.89
Ethylbenzene	25.8	14.4	112	62.4		71.89
Freon-113	ND	14.4	ND	110.		71.89
Freon-114	ND	14.4	ND	100.		71.89
Hexachlorobutadiene	ND	14.4	ND	153.		71.89
Isopropanol	ND	35.9	ND	88.3		71.89
Methylene chloride	ND	35.9	ND	125		71.89
4-Methyl-2-pentanone	ND	14.4	ND	58.8		71.89
Methyl tert butyl ether	ND	14.4	ND	51.8		71.89
p/m-Xylene	58.0	28.8	252	125		71.89
o-Xylene	16.4	14.4	71.2	62.4		71.89
Heptane	ND	14.4	ND	58.9		71.89
n-Hexane	ND	14.4	ND	50.6		71.89
Propylene	34.4	14.4	59.1	24.7		71.89



nw
9/18/09

Project Name: PENDAFLEX
Project Number: 14368.35

Lab Number: L0909636
Report Date: 07/22/09

2

SAMPLE RESULTS

Lab ID: L0909636-02 R\ID
Client ID: 1-30-185-SV02
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:25
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	14.4	ND	61.2		71.89
Tetrachloroethene	4000	14.4	27100	97.4		71.89
Tetrahydrofuran	ND	14.4	ND	42.4		71.89
Toluene	24.7	14.4	93.1	54.1		71.89
trans-1,2-Dichloroethene	ND	14.4	ND	57.0		71.89
trans-1,3-Dichloropropene	ND	14.4	ND	65.2		71.89
Trichloroethene	574	14.4	3080	77.2		71.89
Trichlorofluoromethane	ND	14.4	ND	80.7		71.89
Vinyl acetate	ND	14.4	ND	50.6		71.89
Vinyl bromide	ND	14.4	ND	62.8		71.89
Vinyl chloride	ND	14.4	ND	36.7		71.89



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9/8/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

3

SAMPLE RESULTS

Lab ID: L0909636-03
 Client ID: 1-30-185-SV03
 Sample Location: GARDEN CITY, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/18/09 02:37
 Analyst: RY

Date Collected: 07/14/09 20:30
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	0.290	0.200	1.58	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	5.99	0.200	29.4	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	1.63	0.200	8.02	0.982		1
1,3-Butadiene	0.581	0.200	1.28	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	0.234	0.200	1.41	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	0.312	0.200	1.46	0.934		1
2-Butanone	2.09	0.200	6.15	0.589		1
2-Hexanone	ND	0.200	ND	0.819		1
3-Chloropropene	ND	0.200	ND	0.626		1
4-Ethyltoluene	1.49	0.200	7.31	0.982		1
Acetone	15.3	0.500	36.3	1.19		1
Benzene	0.908	0.200	2.90	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



mw
9/18/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

3

SAMPLE RESULTS

Lab ID: L0909636-03
Client ID: 1-30-185-SV03
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:30
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	1.42	0.200	4.41	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.203	0.200	0.698	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.337	0.200	1.66	0.988		1
Ethanol	3.20	2.50	6.03	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	33.6	0.200	146	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	ND	0.200	ND	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Isopropanol	1.07	0.500	2.64	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	68.2	0.400	296	1.74		1
o-Xylene	12.2	0.200	52.9	0.868		1
Heptane	1.49	0.200	6.12	0.819		1
n-Hexane	1.75	0.200	6.18	0.704		1
Propylene	11.3	0.200	19.5	0.344		1

hw
9/8/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

3

SAMPLE RESULTS

Lab ID: L0909636-03
Client ID: 1-30-185-SV03
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:30
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	2.87	0.200	12.2	0.851		1
Tetrachloroethene	31.2	0.200	211	1.36		1
Tetrahydrofuran	0.351	0.200	1.03	0.589		1
Toluene	22.1	0.200	83.4	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	2.38	0.200	12.8	1.07		1
Trichlorofluoromethane	0.268	0.200	1.50	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1

nw
9/18/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

4

SAMPLE RESULTS

Lab ID: L0909636-04
 Client ID: 1-30-185-SV04
 Sample Location: GARDEN CITY, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/18/09 03:55
 Analyst: RY

Date Collected: 07/14/09 20:35
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	8.67	0.200	42.6	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	2.40	0.200	11.8	0.982		1
1,3-Butadiene	0.727	0.200	1.61	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	0.568	0.200	3.41	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	1.66	0.200	7.75	0.934		1
2-Butanone	1.65	0.200	4.85	0.589		1
2-Hexanone	ND	0.200	ND	0.819		1
3-Chloropropene	ND	0.200	ND	0.626		1
4-Ethyltoluene	2.40	0.200	11.8	0.982		1
Acetone	13.8	0.500	32.7	1.19		1
Benzene	1.13	0.200	3.61	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



hw
9/18/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

4

SAMPLE RESULTS

Lab ID: L0909636-04
 Client ID: 1-30-185-SV04
 Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:35
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.750	0.200	2.33	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.238	0.200	0.818	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.625	0.200	3.09	0.988		1
Ethanol	3.10	2.50	5.83	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	5.74	0.200	24.9	0.868		1
Freon-113	ND	0.200	ND	1.53		1
Freon-114	0.330	0.200	2.30	1.40		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
Isopropanol	1.26	0.500	3.10	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	21.8	0.400	94.6	1.74		1
o-Xylene	8.05	0.200	34.9	0.868		1
Heptane	1.34	0.200	5.50	0.819		1
n-Hexane	1.57	0.200	5.53	0.704		1
Propylene	10.1	0.200	17.4	0.344		1



rw
9/8/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

4

SAMPLE RESULTS

Lab ID: L0909636-04
Client ID: 1-30-185-SV04
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 20:35
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	4.97	0.200	21.1	0.851		1
Tetrachloroethene	18.2	0.200	124	1.36		1
Tetrahydrofuran	0.677	0.200	2.00	0.589		1
Toluene	16.4	0.200	61.8	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.402	0.200	2.26	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1

nw
9/18/09



Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

5

SAMPLE RESULTS

Lab ID: L0909636-05
 Client ID: 1-30-185-SV-DUP
 Sample Location: GARDEN CITY, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/18/09 04:34
 Analyst: RY

Date Collected: 07/14/09 00:00
 Date Received: 07/16/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	14.8	ND	81.0		74.29
1,1,2,2-Tetrachloroethane	ND	14.8	ND	102.		74.29
1,1,2-Trichloroethane	ND	14.8	ND	81.0		74.29
1,1-Dichloroethane	ND	14.8	ND	60.1		74.29
1,1-Dichloroethene	ND	14.8	ND	58.9		74.29
1,2,4-Trichlorobenzene	ND	14.8	ND	110.		74.29
1,2,4-Trimethylbenzene	ND	14.8	ND	73.0		74.29
1,2-Dibromoethane	ND	14.8	ND	114.		74.29
1,2-Dichlorobenzene	ND	14.8	ND	89.2		74.29
1,2-Dichloroethane	ND	14.8	ND	60.1		74.29
1,2-Dichloropropane	ND	14.8	ND	68.6		74.29
1,3,5-Trimethylbenzene	ND	14.8	ND	73.0		74.29
1,3-Butadiene	ND	14.8	ND	32.8		74.29
1,3-Dichlorobenzene	ND	14.8	ND	89.2		74.29
1,4-Dichlorobenzene	ND	14.8	ND	89.2		74.29
1,4-Dioxane	ND	14.8	ND	53.5		74.29
2,2,4-Trimethylpentane	ND	14.8	ND	69.4		74.29
2-Butanone	ND	14.8	ND	43.8		74.29
2-Hexanone	ND	14.8	ND	60.8		74.29
3-Chloropropene	ND	14.8	ND	46.5		74.29
4-Ethyltoluene	ND	14.8	ND	73.0		74.29
Acetone	65.7 J	37.1	156 J	88.2		74.29
Benzene	14.8	14.8	ND	47.4		74.29
Benzyl chloride	ND	14.8	ND	76.9		74.29
Bromodichloromethane	ND	14.8	ND	99.5		74.29



new
9/18/09

Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

07/22/09 10:20

5

SAMPLE RESULTS

Lab ID: L0909636-05
Client ID: 1-30-185-SV-DUP
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 00:00
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	14.8	ND	153.		74.29
Bromomethane	ND	14.8	ND	57.6		74.29
Carbon disulfide	ND	14.8	ND	46.2		74.29
Carbon tetrachloride	ND	14.8	ND	93.4		74.29
Chlorobenzene	ND	14.8	ND	68.3		74.29
Chloroethane	ND	14.8	ND	39.2		74.29
Chloroform	ND	14.8	ND	72.5		74.29
Chloromethane	ND	14.8	ND	30.6		74.29
cis-1,2-Dichloroethene	140	14.8	555	58.9		74.29
cis-1,3-Dichloropropene	ND	14.8	ND	67.4		74.29
Cyclohexane	ND	14.8	ND	51.1		74.29
Dibromochloromethane	ND	14.8	ND	126.		74.29
Dichlorodifluoromethane	ND	14.8	ND	73.4		74.29
Ethanol	ND	186	ND	350		74.29
Ethyl Acetate	ND	37.1	ND	134.		74.29
Ethylbenzene	22.0	14.8	95.7	64.5		74.29
Freon-113	ND	14.8	ND	114.		74.29
Freon-114	ND	14.8	ND	104.		74.29
Hexachlorobutadiene	ND	14.8	ND	158.		74.29
Isopropanol	ND	37.1	ND	91.2		74.29
Methylene chloride	ND	37.1	ND	129		74.29
4-Methyl-2-pentanone	ND	14.8	ND	60.8		74.29
Methyl tert butyl ether	ND	14.8	ND	53.5		74.29
p/m-Xylene	47.9	29.7	208	129		74.29
o-Xylene	ND	14.8	ND	64.5		74.29
Heptane	ND	14.8	ND	60.8		74.29
n-Hexane	16.2	14.8	57.0	52.3		74.29
Propylene	47.7	14.8	82.0	25.6		74.29



nw
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Project Name: PENDAFLEX

Project Number: 14368.35

Lab Number: L0909636

Report Date: 07/22/09

07/22/09 10:20

5

SAMPLE RESULTS

Lab ID: L0909636-05
Client ID: 1-30-185-SV-DUP
Sample Location: GARDEN CITY, NY

Date Collected: 07/14/09 00:00
Date Received: 07/16/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	14.8	ND	63.2		74.29
Tetrachloroethene	3380	14.8	22900	101		74.29
Tetrahydrofuran	ND	14.8	ND	43.8		74.29
Toluene	24.0	14.8	90.4	55.9		74.29
trans-1,2-Dichloroethene	ND	14.8	ND	58.9		74.29
trans-1,3-Dichloropropene	ND	14.8	ND	67.4		74.29
Trichloroethene	504	14.8	2710	79.8		74.29
Trichlorofluoromethane	ND	14.8	ND	83.4		74.29
Vinyl acetate	ND	14.8	ND	52.3		74.29
Vinyl bromide	ND	14.8	ND	64.9		74.29
Vinyl chloride	ND	14.8	ND	37.9		74.29



9/18/09