312974

SOIL VAPOR MITIGATION SYSTEM SAMPLING TRIP REPORT

SITE NAME: Sweet Kleen Laundry Site
DCN No.: RST-02-F-0312
TDD No.: TO-0007-0052

SAMPLING DATE: August 21, 2007

EPA SITE I.D. NO.: RS

1. **Site Location:** 760 Kensington Avenue, Buffalo, Erie County, New York

2. **Sample Description:**

On August 21, 2007, one soil gas sample was collected from the existing soil vapor mitigation system located at the Sweet Kleen Laundry Site. The sample was submitted to a RST 2 procured laboratory for volatile organic compounds analysis via EPA Method TO-15 (See Attachment 3 for a copy of the preliminary analytical data).

The air sample SK-AIR-01 was collected from the existing soil vapor mitigation system on August 21, 2007, using a laboratory certified-clean summa canister with a 24-hour passive flow controller and pressure regulator. RST 2 opened the air sampling valve of the summa canister at around 0900 hours in the morning and at 1600 hours noticed that the summa canister had nearly reached ambient pressure. RST 2 immediately notified the EPA OSC regarding the sample run-time of approximately seven hours. The OSC decided to submit the sample for laboratory analysis as is.

3. **Laboratories Receiving Samples:**

Sample Matrix	Analyses	Laboratory
Soil Vapor Mitigation System (Air)	Volatile Organic Compounds via EPA Method TO-15	DataChem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City, UT 84123 (800) 356-9135

4. **Sample Dispatch Data:**

The air sample collected from the existing soil vapor mitigation system was submitted to the laboratory via FedEx on August 21, 2007 (Refer to Attachment 2 for the Chain of Custody

Record).

Turn-around times of two weeks for verbal and three weeks for written Analytical results were requested by the OSC.

5. On-Site Personnel:

Name	Representing	Duties On-Site
Kevin Matheis	US EPA	On-Scene Coordinator
Tara Rowland	Region II RST 2	Site Project Manager, Site QA/QC, Sample Collection and Sample Management

6. Preliminary Analytical Data:

The following data table includes only volatile organic compounds detected above the Method Detection Limit (MDL). The complete analytical data table can be found in Attachment 3.

Analyte	Result	Units
Dichlorodifluoromethane	4.1	$\mu g/m^3$
Freon 11	2.0 J	$\mu g/m^3$
cis-1,2-Dichloroethene	650	$\mu g/m^3$
Acetone	22 B	$\mu g/m^3$
Methylene Chloride	1.3 J	$\mu g/m^3$
trans-1,2-Dichloroethene	4.2	$\mu g/m^3$
2-Butanone	2.7	$\mu g/m^3$
Benzene	1.0 J	$\mu g/m^3$
Tetrahydrofuran	2.2	$\mu g/m^3$
Trichloroethene	550	$\mu g/m^3$
Toluene	7.9	$\mu g/m^3$
Tetrachloroethene	5400 E	$\mu g/m^3$
m,p-Xylene	1.2	$\mu g/m^3$

7. Report prepared by: Sayed Iqbal — 9/14/07

Sayed Iqbal
RST 2 Team Member

Date

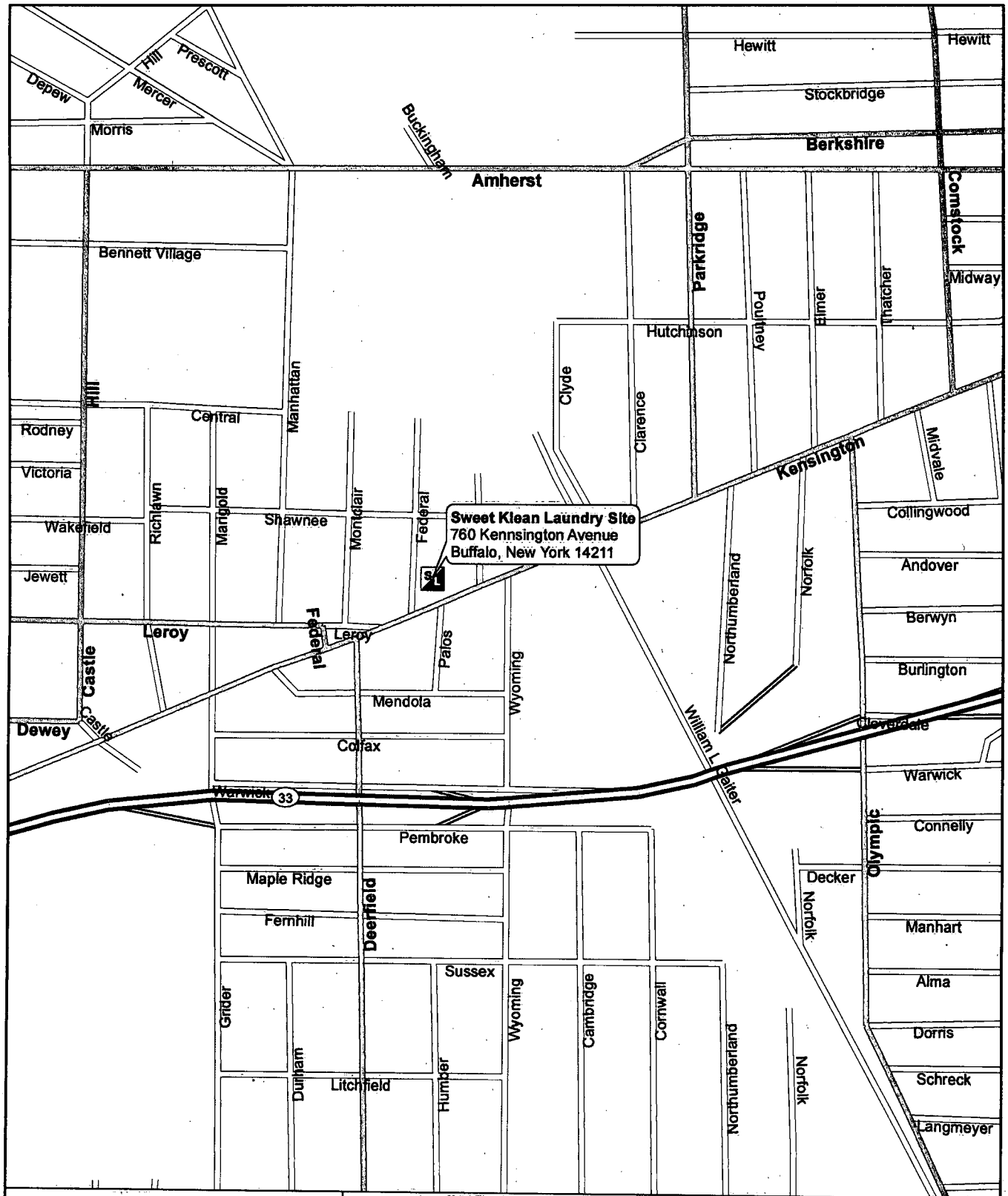
8. Report reviewed by: 9/17/07

John Brennan
RST 2 Group Leader

Date

ATTACHMENT 1

Site Location Map



Legend

Site Location

N

0 0.04 0.08 0.16 0.24 0.32 Miles

Weston Solutions, Inc.
Federal Programs Division

In Association With
Innovative Technical Solutions, Inc.,
Scientific and Environmental Associates, Inc.
and Avatar Environmental, LLC.

Figure 1:
Site Location Map

SWEET KLEAN LAUNDRY SITE
BUFFALO, NEW YORK

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072

DATE MODIFIED: 08/22/2007

GIS ANALYST:	F. CAMPBELL
EPA OSC:	K. MATHEIS
RST SPM:	T. ROWLAND
FILENAME:	SWEET KLEAN LAUNDRY.MXD

ATTACHMENT 2

Chain of Custody Record

Weston Solutions, Inc.
1090 King Georges Post Rd., Suite. 201,
Edison, NJ 08837
EPA Contract Number: EP-W-06-072
RFP#: 044, PO#: 0059836

CHAIN OF CUSTODY RECORD

Site #: TO-0007-0052
Contact Name: Tara Rowland
Contact Phone: 732-570-4815

No: TO-0007-0052-08/21/07-0001

AirbillNo: 862394610709
Lab: DataChem Laboratories, Inc.
Lab Phone: 801-266-7700

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	SK-AIR-01	760 Kensington Ave.	VOCs	Air	8/21/2007	1	Summa Canister	None	N
							108817		

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY # TO-0007-0052-08/21/07-0001

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	08/21/07	[illegible]	8/22/07	1030						
Login	[illegible]		[illegible]	8/22/07	0915						

ATTACHMENT 3

Preliminary Analytical Data

PRELIMINARY DATA

Form RLIMS63A-V1.4
0800711331680
Page 12

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S077R01H

Date Printed.....: 30-AUG-07 11:33

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0059836
Sampling Site.....: 0059836
Release Number.....: 0059836

Date Received.....: 24-AUG-07 00:00

Client Sample Name: SK-AIR-01|108817
DCL Sample Name...: 07E04377
DCL Report Group..: 07E-0756-01

Matrix.....: AIR
Date Sampled.....: 21-AUG-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G077Y005
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	29-AUG-07 12:20	0.0669	0.83	ppb v/v		1	0.5
Dichlorodifluoromethane	29-AUG-07 12:20	0.33	4.1	µg/m³		1	2.5
Chloromethane	29-AUG-07 12:20	0.249	ND	ppb v/v		1	0.5
Chloromethane	29-AUG-07 12:20	0.51	ND	µg/m³		1	1.0
Freon 114	29-AUG-07 12:20	0.156	ND	ppb v/v		1	0.5
Freon 114	29-AUG-07 12:20	1.1	ND	µg/m³		1	3.5
Vinyl Chloride	29-AUG-07 12:20	0.301	ND	ppb v/v		1	0.5
Vinyl Chloride	29-AUG-07 12:20	0.77	ND	µg/m³		1	1.3
1,3-Butadiene	29-AUG-07 12:20	0.346	ND	ppb v/v		1	0.5
1,3-Butadiene	29-AUG-07 12:20	0.77	ND	µg/m³		1	1.1
Bromomethane	29-AUG-07 12:20	0.215	ND	ppb v/v		1	0.5
Bromomethane	29-AUG-07 12:20	0.83	ND	µg/m³		1	1.9
Chloroethane	29-AUG-07 12:20	0.388	ND	ppb v/v		1	0.5
Chloroethane	29-AUG-07 12:20	1.0	ND	µg/m³		1	1.3
Freon 11	29-AUG-07 12:20	0.0921	0.36	ppb v/v	J	1	0.5
Freon 11	29-AUG-07 12:20	0.52	2.0	µg/m³	J	1	2.8
cis-1,2-Dichloroethene	29-AUG-07 12:20	1.0	160	ppb v/v		10	5.0
cis-1,2-Dichloroethene	29-AUG-07 12:20	4.0	650	µg/m³		10	20.
Carbon Disulfide	29-AUG-07 12:20	0.111	ND	ppb v/v		1	0.5
Carbon Disulfide	29-AUG-07 12:20	0.35	ND	µg/m³		1	1.6
Freon 113	29-AUG-07 12:20	0.0950	ND	ppb v/v		1	0.5
Freon 113	29-AUG-07 12:20	0.73	ND	µg/m³		1	3.8
Acetone	29-AUG-07 12:20	0.113	9.1	ppb v/v	B	1	0.5
Acetone	29-AUG-07 12:20	0.27	22.	µg/m³	B	1	1.2
Methylene Chloride	29-AUG-07 12:20	0.168	0.36	ppb v/v	J	1	0.5
Methylene Chloride	29-AUG-07 12:20	0.58	1.3	µg/m³	J	1	1.7
trans-1,2-Dichloroethene	29-AUG-07 12:20	0.118	1.1	ppb v/v		1	0.5
trans-1,2-Dichloroethene	29-AUG-07 12:20	0.47	4.2	µg/m³		1	2.0
1,1-Dichloroethane	29-AUG-07 12:20	0.116	ND	ppb v/v		1	0.5
1,1-Dichloroethane	29-AUG-07 12:20	0.47	ND	µg/m³		1	2.0
Methyl t-Butyl Ether	29-AUG-07 12:20	0.147	ND	ppb v/v		1	0.5
Methyl t-Butyl Ether	29-AUG-07 12:20	0.53	ND	µg/m³		1	1.8
Vinyl Acetate	29-AUG-07 12:20	0.133	ND	ppb v/v		1	0.5
Vinyl Acetate	29-AUG-07 12:20	0.47	ND	µg/m³		1	1.8
1,1-Dichloroethene	29-AUG-07 12:20	0.109	ND	ppb v/v		1	0.5
1,1-Dichloroethene	29-AUG-07 12:20	0.43	ND	µg/m³		1	2.0
2-Butanone	29-AUG-07 12:20	0.182	0.90	ppb v/v		1	0.5
2-Butanone	29-AUG-07 12:20	0.54	2.7	µg/m³		1	1.5
Ethyl Acetate	29-AUG-07 12:20	0.273	ND	ppb v/v		1	0.5
Ethyl Acetate	29-AUG-07 12:20	0.98	ND	µg/m³		1	1.8
Hexane	29-AUG-07 12:20	0.121	ND	ppb v/v		1	0.5

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

PRELIMINARY DATA
Form RLIMS63A-V1.4
TS00711331680
S077R01H

Date Printed.....: 30-AUG-07 11:33
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 07E04377
DCL Report Group..: 07E-0756-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	29-AUG-07 12:20	0.43	ND	µg/m³		1	1.8
Chloroform	29-AUG-07 12:20	0.115	ND	ppb v/v		1	0.5
Chloroform	29-AUG-07 12:20	0.56	ND	µg/m³		1	2.4
1,1,1-Trichloroethane	29-AUG-07 12:20	0.0725	ND	ppb v/v		1	0.5
1,1,1-Trichloroethane	29-AUG-07 12:20	0.40	ND	µg/m³		1	2.7
Carbon Tetrachloride	29-AUG-07 12:20	0.0657	ND	ppb v/v		1	0.5
Carbon Tetrachloride	29-AUG-07 12:20	0.41	ND	µg/m³		1	3.1
Benzene	29-AUG-07 12:20	0.102	0.32	ppb v/v	J	1	0.5
Benzene	29-AUG-07 12:20	0.33	1.0	µg/m³	J	1	1.6
Tetrahydrofuran	29-AUG-07 12:20	0.227	0.76	ppb v/v		1	0.5
Tetrahydrofuran	29-AUG-07 12:20	0.67	2.2	µg/m³		1	1.5
1,2-Dichloroethane	29-AUG-07 12:20	0.153	ND	ppb v/v		1	0.5
1,2-Dichloroethane	29-AUG-07 12:20	0.62	ND	µg/m³		1	2.0
Cyclohexane	29-AUG-07 12:20	0.120	ND	ppb v/v		1	0.5
Cyclohexane	29-AUG-07 12:20	0.41	ND	µg/m³		1	1.7
Trichloroethene	29-AUG-07 12:20	1.2	100	ppb v/v		10	5.0
Trichloroethene	29-AUG-07 12:20	6.4	550	µg/m³		10	27.
1,2-Dichloropropane	29-AUG-07 12:20	0.123	ND	ppb v/v		1	0.5
1,2-Dichloropropane	29-AUG-07 12:20	0.57	ND	µg/m³		1	2.3
Bromodichloromethane	29-AUG-07 12:20	0.0779	ND	ppb v/v		1	0.5
Bromodichloromethane	29-AUG-07 12:20	0.52	ND	µg/m³		1	3.3
Heptane	29-AUG-07 12:20	0.101	ND	ppb v/v		1	0.5
Heptane	29-AUG-07 12:20	0.41	ND	µg/m³		1	2.0
cis-1,3-Dichloropropene	29-AUG-07 12:20	0.106	ND	ppb v/v		1	0.5
cis-1,3-Dichloropropene	29-AUG-07 12:20	0.48	ND	µg/m³		1	2.3
4-Methyl-2-Pentanone	29-AUG-07 12:20	0.116	ND	ppb v/v		1	0.5
4-Methyl-2-Pentanone	29-AUG-07 12:20	0.48	ND	µg/m³		1	2.0
Toluene	29-AUG-07 12:20	0.115	2.1	ppb v/v		1	0.5
Toluene	29-AUG-07 12:20	0.43	7.9	µg/m³		1	1.9
trans-1,3-Dichloropropene	29-AUG-07 12:20	0.130	ND	ppb v/v		1	0.5
trans-1,3-Dichloropropene	29-AUG-07 12:20	0.59	ND	µg/m³		1	2.3
1,1,2-Trichloroethane	29-AUG-07 12:20	0.0972	ND	ppb v/v		1	0.5
1,1,2-Trichloroethane	29-AUG-07 12:20	0.53	ND	µg/m³		1	2.7
Tetrachloroethene	29-AUG-07 12:20	0.85	800	ppb v/v	E	10	5.0
Tetrachloroethene	29-AUG-07 12:20	5.7	5400	µg/m³	E	10	34.
2-Hexanone	29-AUG-07 12:20	0.136	ND	ppb v/v		1	0.5
2-Hexanone	29-AUG-07 12:20	0.56	ND	µg/m³		1	2.0
Dibromochloromethane	29-AUG-07 12:20	0.0792	ND	ppb v/v		1	0.5
Dibromochloromethane	29-AUG-07 12:20	0.67	ND	µg/m³		1	4.2
1,2-Dibromoethane	29-AUG-07 12:20	0.119	ND	ppb v/v		1	0.5
1,2-Dibromoethane	29-AUG-07 12:20	0.91	ND	µg/m³		1	3.8
Chlorobenzene	29-AUG-07 12:20	0.0882	ND	ppb v/v		1	0.5
Chlorobenzene	29-AUG-07 12:20	0.41	ND	µg/m³		1	2.3
Ethylbenzene	29-AUG-07 12:20	0.150	ND	ppb v/v		1	0.5
Ethylbenzene	29-AUG-07 12:20	0.65	ND	µg/m³		1	2.2
m,p-Xylene	29-AUG-07 12:20	0.213	0.27	ppb v/v	J	1	1.0
m,p-Xylene	29-AUG-07 12:20	0.92	1.2	µg/m³	J	1	4.3
o-Xylene	29-AUG-07 12:20	0.113	ND	ppb v/v		1	0.5
o-Xylene	29-AUG-07 12:20	0.49	ND	µg/m³		1	2.2
Styrene	29-AUG-07 12:20	0.0748	ND	ppb v/v		1	0.5
Styrene	29-AUG-07 12:20	0.32	ND	µg/m³		1	2.1
Bromoform	29-AUG-07 12:20	0.0884	ND	ppb v/v		1	0.5
Bromoform	29-AUG-07 12:20	0.90	ND	µg/m³		1	5.1
1,1,2,2-Tetrachloroethane	29-AUG-07 12:20	0.108	ND	ppb v/v		1	0.5
1,1,2,2-Tetrachloroethane	29-AUG-07 12:20	0.74	ND	µg/m³		1	3.4
Benzyl Chloride	29-AUG-07 12:20	0.136	ND	ppb v/v		1	0.5
Benzyl Chloride	29-AUG-07 12:20	0.70	ND	µg/m³		1	2.6
4-Ethyl toluene	29-AUG-07 12:20	0.0983	ND	ppb v/v		1	0.5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

PRELIMINARY DATA
Form RLIMS63A-V1.4
8800711331680
S077R01H

Date Printed.....: 30-AUG-07 11:33
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 07E04377
DCL Report Group..: 07E-0756-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	29-AUG-07 12:20	0.48	ND	µg/m³		1	2.5
1,3,5-Trimethylbenzene	29-AUG-07 12:20	0.112	ND	ppb v/v		1	0.5
1,3,5-Trimethylbenzene	29-AUG-07 12:20	0.55	ND	µg/m³		1	2.5
1,2,4-Trimethylbenzene	29-AUG-07 12:20	0.117	ND	ppb v/v		1	0.5
1,2,4-Trimethylbenzene	29-AUG-07 12:20	0.58	ND	µg/m³		1	2.5
1,3-Dichlorobenzene	29-AUG-07 12:20	0.120	ND	ppb v/v		1	0.5
1,3-Dichlorobenzene	29-AUG-07 12:20	0.72	ND	µg/m³		1	3.0
1,4-Dichlorobenzene	29-AUG-07 12:20	0.0987	ND	ppb v/v		1	0.5
1,4-Dichlorobenzene	29-AUG-07 12:20	0.59	ND	µg/m³		1	3.0
1,2-Dichlorobenzene	29-AUG-07 12:20	0.0851	ND	ppb v/v		1	0.5
1,2-Dichlorobenzene	29-AUG-07 12:20	0.51	ND	µg/m³		1	3.0
1,2,4-Trichlorobenzene	29-AUG-07 12:20	0.115	ND	ppb v/v		1	0.5
1,2,4-Trichlorobenzene	29-AUG-07 12:20	0.85	ND	µg/m³		1	3.7
Hexachlorobutadiene	29-AUG-07 12:20	0.119	ND	ppb v/v		1	0.5
Hexachlorobutadiene	29-AUG-07 12:20	1.3	ND	µg/m³		1	5.3

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Unknown fluorocarbon(4.41)	29-AUG-07 12:20	3.6	ppb v/v	J	1
Ethanol(5.28)	29-AUG-07 12:20	2.5	ppb v/v	J	1

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