IMPACT ENVIRONMENTAL
a division of impact environmental consulting, inc.

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November 13, 2003

Mr. Joseph White, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control
625 Broadway
Albany, New York 12233-7014

Re: *Melody Cleaners Site*
2050 Hempstead Turnpike, East Meadow, New York
Order on Consent Index # D1-0001-00-07
VCP Site Code # 347-1

Dear Mr. White:

Attached for your review, please find the Draft Interim Remedial Measures work plan prepared with respect to the former on-site sanitary system associated with the laundromat building at the Melody Cleaners Site. I apologize for the delay in sending you this plan, as the Volunteer was considering changing into the State Registry remedial program.

Please feel free to contact me with any questions or comments.

Sincerely,
Impact Environmental
Consulting, Inc.

Kevin Kleaka
Quality Control Officer

Cc: *Ian Ushe, NYSDOH*
Debra Rothberg, Esq.
Lowden Family Trust d/b/a Lowden Properties

DRAFT

INTERIM REMEDIAL MEASURES WORK PLAN

Proposed for:

Melody Cleaners Site
2050 Hempstead Turnpike
East Meadow, New York
Voluntary Cleanup Program Site Code #347-1

Prepared for:

The New York State Department of Environmental Conservation

November 2003

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November 2003

Richard S. Parrish
Project Manager

Kevin C. Kleaka
Quality Assurance Officer

TABLE OF CONTENTS

FIGURES:

TABLES:

1. INTRODUCTION

This Draft Interim Remedial Measures (IRM) Work Plan documents the tasks scoped to mitigate point pollution sources that have been identified at the property located at 2045 Front Street Hempstead Turnpike, East Meadow, New York, herein identified as the "site". This property is situated on the real property tax map designation Section 50; Block C; Lot 20, which is part of the Melody Cleaners VCP Site. The NYSDEC designated Volunteer is Lowden Family Trust d/b/a Lowden Properties. Activities occurring on this portion of the site have caused the release of hazardous waste to the environment. During remedial investigation activities performed in June 2003, contamination was confirmed to exist within seven cesspools associated with a former on-site sanitary disposal system.

The purpose of the proposed activities presented herein, is to prevent the further contamination of on and off-site soil, soil-gas and groundwater from the identified point pollution source. The IRM only addresses source removal and is not intended as the entire remedy to the Site pollution. This document is divided into the following sections.

- **Site Background and Setting**
- **Results of Supplemental Remedial Investigation**
- **Proposed Interim Remedial Measures**

Presented herein is the proposed IRM Work Plan to be implemented by Impact Environmental Consulting, Inc. on behalf of the Volunteer for the investigation of the Melody Cleaners VCP Site.

2. SITE BACKGROUND AND SETTING

2.1 Site Location and Topography

The site is located within a 74,702 square foot commercial shopping center situated at the southwestern intersection of Hempstead Turnpike and Front Street (see **Figure 1:** Site Location Map). The shopping center contains five single-story buildings that are utilized by separate tenants including a donut shop, a laundromat, a dry cleaner, car wash and a vacant television repair shop. The surface area of the site consists of asphalt parking areas and concrete walkways. The site exhibits low topographic relief (one to three percent slopes). The elevation of the site, as presented on the United States Geologic Survey (USGS), Freeport Quadrangle Map, approximates eighty-five (85) feet above mean sea level.

3. RESULTS OF SUPPLEMENTAL REMEDIAL INVESTIGATION

This section presents data obtained from parts of the Supplemental Remedial Investigation Plan implemented by Impact Environmental in June 2003 for the purposes of the IRM. The balance of data collected under the scope of said plan will be presented in a Remedial Investigation Report.

3.1 Geophysical Survey

A geophysical survey was performed over target portions of the planimetric surface of the Site utilizing a GSSI model SIR-2 ground penetrating radar system equipped with a 400MHz antenna. The survey was performed to confirm the location of abandoned underground injection wells associated with the former wastewater disposal systems historically operated by the car wash and the laundromat on the Site. Target locations were based upon site plans on file with the Town of Hempstead Building Department. An analysis of the data obtained from the survey identified the presence of several anomalies interpreted to represent cesspools (underground injection wells) at the laundromat and car wash properties. Seven abandoned cesspools were suspected to be present at the laundromat building, and four cesspools were suspected to be present at the car wash building. The location and layout of said cesspools was consistent with the historic site plans. In accordance with the Supplemental RI/FS work plan, these locations were sampled (see Section 3.2). The results of the survey are presented on **Figure 2:** Sample Acquisition Map, *East Meadow, New York.*

3.2 Investigation of Former Wastewater Disposal Systems

One subsurface sediment sample was secured at the location of each abandoned cesspool confirmed at the laundromat and the car wash as identified from the geophysical survey. These activities revealed that the former cesspools associated with the laundromat were not previously backfilled and therefore not properly abandoned, and that the four cesspools associated with the car wash had been previously backfilled. One sediment sample was secured from each location for laboratory analysis. The samples were preserved in the field with methanol in accordance with USEPA Test Method 5035 and subjected to ELAP certified laboratory analysis consisting of USEPA Test Method 8260 for total volatile organic analytes.

The results of the Supplemental Remedial Investigation confirmed that seven abandoned cesspools associated with the laundromat building and one abandoned cesspool associated with the car wash building have been contaminated by organic solvents at concentrations exceeding NYSDEC TAGM # 4046 Recommended Soil Cleanup Objectives. The concentrations detected in the cesspool associated with the

car wash marginally exceeded said cleanup objectives and will not be addressed under this IRM plan. The detected contamination in the cesspool associated with the car wash will be addressed through the long term remediation of the site. **Table 1** presents the analytical detections from the laundromat and car wash cesspools. The original Laboratory Report as prepared by Chemtech is presented as an attachment to this work plan.

4. PROPOSED INTERIM REMEDIAL MEASURES

Interim Remedial Measures (IRM) is proposed with respect to the seven abandoned cesspools associated with the laundromat. These cesspools were identified by sample codes as UIW-4 through UIW-10 (see Figure 2). The IRM process will be implemented to prevent further contamination of groundwater and/or soil-gas from the identified pollution sources. All IRM activities will be performed in accordance with the Community Health and Safety Plan approved as part of the RI/FS Work Plan dated July 2002.

4.1 Source Removal

The remedial method identified as *removal and off-site disposal* will be the selected remedial technique proposed for this IRM. This method has been selected to address the identified pollution source at the site as an immediate response measure. This method involves the removal of contaminated media from a known pollution source and the off-site disposal of the contaminated media at a proper waste disposal facility.

Each abandoned cesspool structure will be accessed utilizing excavating equipment. The bottom sludge/sediment in each of the abandoned cesspools, which is the most contaminated source media, will be evacuated utilizing an industrial vacuum truck. The air emission discharge from the industrial vacuum truck will be treated with activated carbon (see Section 4.2). As these systems have not been utilized for at least twenty years (the laundromat building was connected to the county sewer), no liquids are expected to be encountered in the cesspools. The contaminated sludge/sediment evacuated from the cesspools will be directly transferred from the vacuum truck onto a plastic liner and covered with plastic sheeting for temporary on-site storage (in the alley to the west of the laundromat building), pending waste classification results. This area will be fenced off for security purposes. The contaminated media will be removed within forty eight hours and transported from the site for proper disposal.

One endpoint sample will be secured from the invert of each former cesspool for laboratory analysis. The samples will be subjected to ELAP certified laboratory analysis. The samples will be preserved in the field with methanol in accordance with USEPA Test Method 5035. The laboratory analysis will consist of USEPA Test Method 8260 for total volatile organic analytes. The laboratory analysis results will be reported with NYSDEC Analytical Sampling Protocol (ASP) B deliverables. The cesspool structures will remain intact, and will be backfilled to grade subsequent to the waste removal activities.

Analytical data will be obtained from representative samples of the waste material to classify it for proper disposal pursuant to Title 6 NYCRR Part 371. The selection of the waste disposal facilities for the contaminated sludge/sediment will be determined by the results of waste classification prior to disposal.

The solid waste media from the pollution source is expected to be classified as a hazardous F-waste, and will be handled pursuant to Title 6 NYCRR Part 371 and EPA 40 CFR 261 regulations, transported with waste manifests and disposed in accordance with Title 6 NYCRR Part 360 and 371 regulations. The waste shall be transported to and disposed of at the following disposal facility:

Horizon Environmental, Inc.
120 Route 155
Grandes-Piles (Champlain), Canada
USEPA ID Number NYR000078964

4.2 Specialized Health and Safety Provisions

To prevent the release of fugitive perc emissions from the site during the source removal activities, the air flow from the vacuum truck will be entirely diverted into an air pollution control device. The air flow pollution control device will consist of a granular activated carbon vessel (see **Figure 3:** Activated Carbon Vessel) capable of high air flow rates (approximately 1000 CFM). Using the emission air flow rates for the vacuum truck discharge and the concentrations of contamination in the cesspools, mass transfer calculations will be made to determine the appropriate mesh size and amount of activated carbon. It is anticipated that a mesh size of 4X10 will be used based on conservative estimates of the variables. Connections from the vacuum discharge vent on the truck will be made using flexible hosing secured with clamps and duct tape to form an air tight seal. System efficacy will be determined from the results of the community air monitoring program.

TABLES

IRM Work Plan

Analytical Summary Table
Volatile Organic Sediment Analysis Results
VCP Site Code #347-1

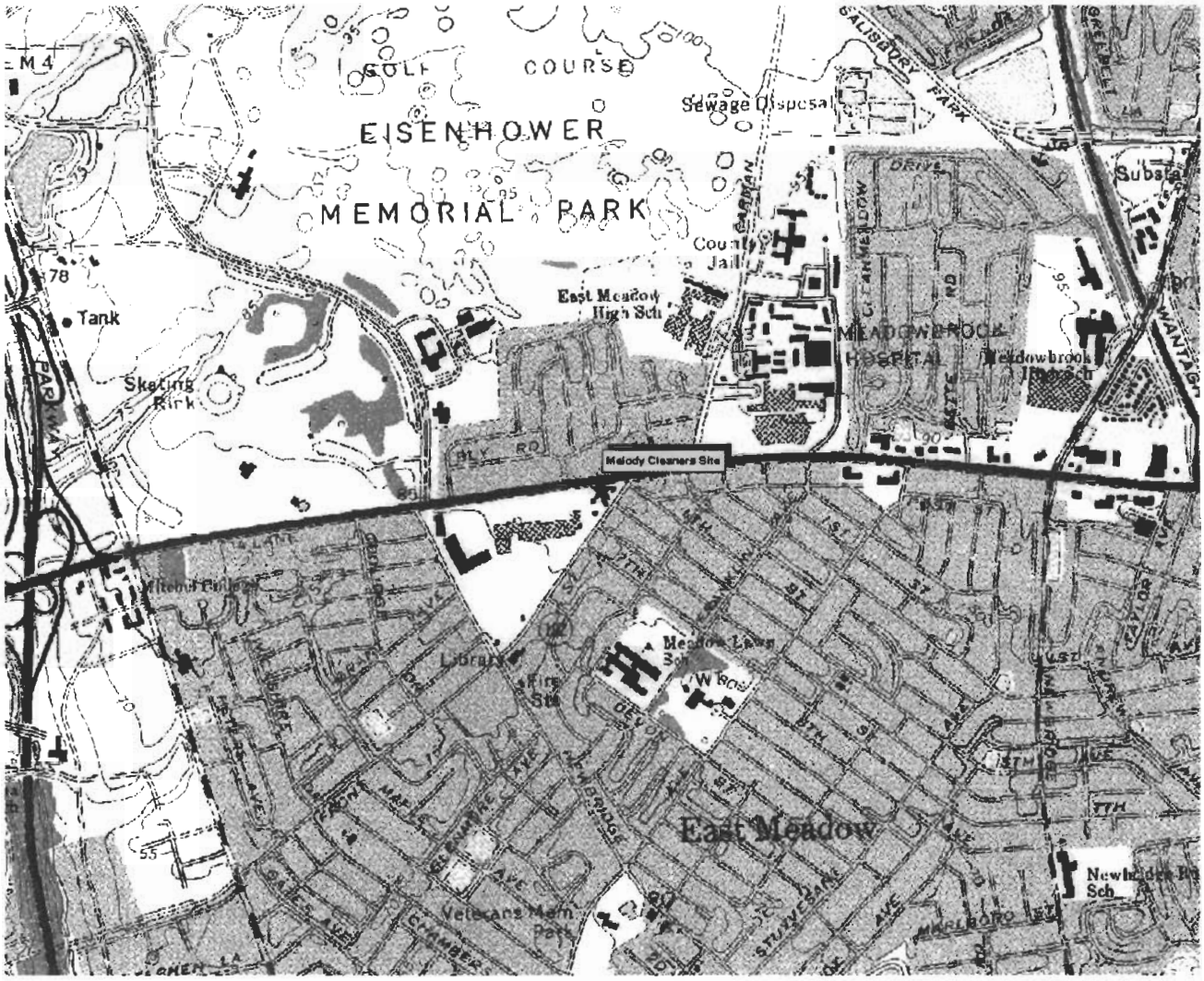
Sample ID	**347-UIW-4 (15')**	**347-UIW-5 (15')**	**347-UIW-6 (16.5')**	**347-UIW-7 (18')**	**347-UIW-8 (15')**	**347-UIW-9 (15')**	**347-UIW-10 (16')**	**347-UIW-11 (10')**	**347-UIW-12 (12')**	**347-UIW-13 (10')**	**347-UIW-14 (18')**	**NYSDEC** TAGM #4046 Soil Cleanup Objectives
Units	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*	*µg/Kg*
Volatile Organic Analytes:												
Carbon Disulfide	U	U	**3100J**	U	**5000J**	U	U	U	U	U	U	2,700
cis-1,2-Dichloroethene	38,000	23,000	30,000	6200J	63,000	10,000	72,000	U	U	U	U	NA
Trichloroethene	**1000J**	**12,000**	**8200J**	**10,000**	**12,000**	**3800J**	U	U	U	U	U	700
Toluene	U	U	**2500J**	U	**9,000**	U	U	U	U	U	U	1,500
Tetrachloroethene	**5000J**	**110,000**	**7,200**	**77,000**	**50,000**	**16,000**	U	**3,300**	U	U	U	1,400
1,3,5-Trimethylbenzene	U	U	U	U	**2100J**	U	**6600J**	U	U	U	U	3,300
tert-Butylbenzene	U	U	U	U	U	U	U	U	U	U	U	10,000
1,2,4-Trimethylbenzene	2900J	4100J	4400J	U	5300J	U	3500J	U	U	U	U	10,000
1,2-Dichlorobenzene	3300J	3700J	3100J	U	U	U	**95,000**	U	U	U	U	7,900
1,3-Dichlorobenzene	U	U	U	U	U	U	**23,000**	U	U	U	U	1,600
1,4-Dichlorobenzene	3300J	3500J	U	2800J	2800J	U	**37,000**	U	U	U	U	8,500
1,2,4-Trichlorobenzene	U	U	U	U	U	U	43,000	U	U	U	U	3,400
Naphthalene	6000J	9000J	3700J	U	6100J	U	4500J	U	2700J	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	14,000	U	U	U	U	NA

Bold values represent concentrations above guidance criteria.
J: Estimated value less than method detection limit
U: Not Detected.
NA: Not Avaiable.

FIGURES

IRM Work Plan

Figure 1: Site Location Map
East Meadow, New York



Scale 1:24000
CONTOUR INTERVAL 10 FEET
DASHED LINES REPRESENT 5 – FOOT CONTOURS
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET – DATUM IS MEAN LOW WATER

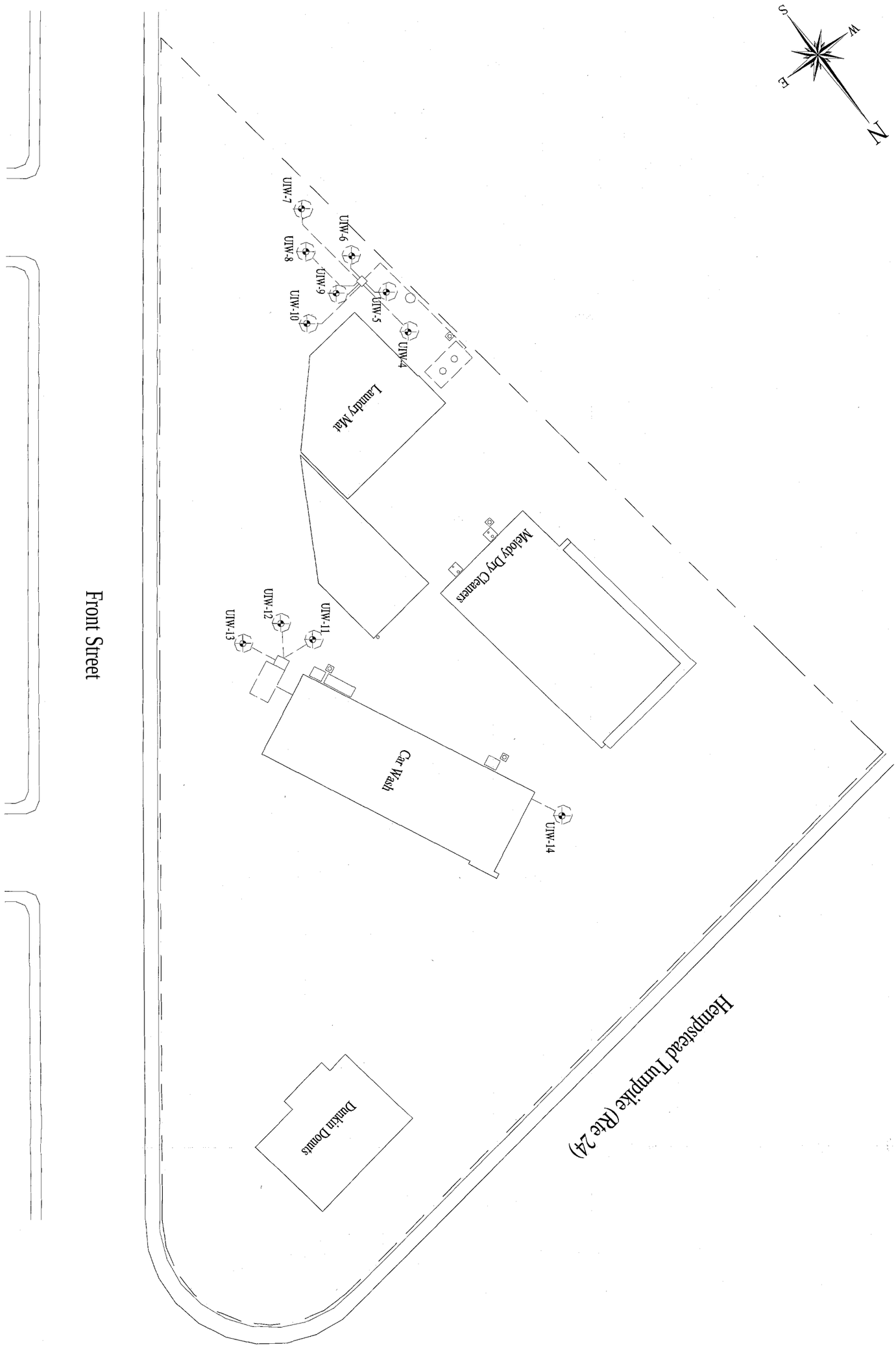


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Figure 2: Sample Acquisition Plan

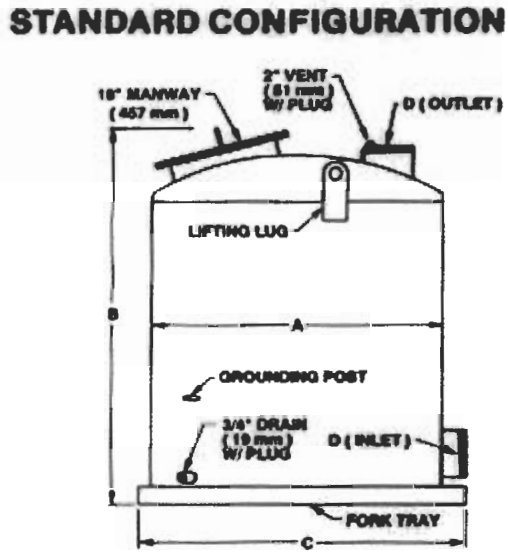
Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, New York
VCP Site Code # 347-1

Legend

scale: 1" = 40'

- temporary well point
- soil probe
- soil-gas probe

Figure 3: Activated Carbon Vessels
East Meadow, New York



LABORATORY ANALYSIS

IRM Work Plan

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME: MELODY CLEANERS DRY WELLS

IMPACT ENVIRONMENTAL
1 VILLAGE PLAZA
KINGS PARK, NY 11754
6312698800

CHEMTECH PROJECT NO. **R2855**
ATTENTION: **Kevin Kleaka**

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME: MELODY CLEANERS DRY WELLS

IMPACT ENVIRONMENTAL
1 VILLAGE PLAZA
KINGS PARK, NY 11754
6312698800

CHEMTECH PROJECT NO. **R2911**
ATTENTION: **Kevin Kleaka**

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-08 Client ID: 347-UIW-4D15

Date Collected: 6/16/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062705.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 5.4 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 59

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1600	U	11000	1600	ug/Kg
Chloromethane	74-87-3	< 1200	U	11000	1200	ug/Kg
Vinyl chloride	75-01-4	< 1800	U	11000	1800	ug/Kg
Bromomethane	74-83-9	< 870	U	11000	870	ug/Kg
Chloroethane	75-00-3	< 5500	U	11000	5500	ug/Kg
Trichlorofluoromethane	75-69-4	< 1600	U	11000	1600	ug/Kg
tert-Butyl Alcohol	75-65-0	< 9100	U	57000	9100	ug/Kg
1,1-Dichloroethene	75-35-4	< 1600	U	11000	1600	ug/Kg
Acrolein	107-02-8	< 11000	U	57000	11000	ug/Kg
Acrylonitrile	107-13-1	< 8000	U	57000	8000	ug/Kg
Acetone	67-64-1	< 8000	U	11000	8000	ug/Kg
Carbon disulfide	75-15-0	< 1600	U	11000	1600	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 2400	U	11000	2400	ug/Kg
Methylene Chloride	75-09-2	< 4000	U	11000	4000	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1800	U	11000	1800	ug/Kg
Vinyl Acetate	108-05-4	< 5900	U	57000	5900	ug/Kg
1,1-Dichloroethane	75-34-3	< 1500	U	11000	1500	ug/Kg
2-Butanone	78-93-3	< 5200	U	11000	5200	ug/Kg
Carbon Tetrachloride	56-23-5	< 1100	U	11000	1100	ug/Kg
2,2-Dichloropropane	594-20-7	< 1400	U	11000	1400	ug/Kg
cis-1,2-Dichloroethene	156-59-2	38000		11000	1400	ug/Kg
Bromochloromethane	74-97-5	< 5600	U	11000	5600	ug/Kg
Chloroform	67-66-3	< 1400	U	11000	1400	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1700	U	11000	1700	ug/Kg
1,1-Dichloropropene	563-43-2	< 6800	U	11000	6800	ug/Kg
Benzene	71-43-2	< 1600	U	11000	1600	ug/Kg
1,2-Dichloroethane	107-06-2	< 1300	U	11000	1300	ug/Kg
Trichloroethene	79-01-6	10000	J	11000	1600	ug/Kg
1,2-Dichloropropane	78-87-5	< 1600	U	11000	1600	ug/Kg
Dibromomethane	74-95-3	< 1400	U	11000	1400	ug/Kg
Bromodichloromethane	75-27-4	< 1700	U	11000	1700	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1800	U	11000	1800	ug/Kg
Toluene	108-88-3	< 1600	U	11000	1600	ug/Kg
cis-1,3-Dichloropropene	10061-02-6	< 1500	U	11000	1500	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-08 Client ID: 347-UIW-4 5

Date Collected: 6/16/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062705.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 5.4 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 59

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1500	U	11000	1500	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1400	U	11000	1400	ug/Kg
1,3-Dichloropropane	142-28-9	< 1300	U	11000	1300	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 4900	U	11000	4900	ug/Kg
2-Hexanone	591-78-6	< 1400	U	11000	1400	ug/Kg
Dibromochloromethane	124-48-1	< 1500	U	11000	1500	ug/Kg
1,2-Dibromoethane	106-93-4	< 1400	U	11000	1400	ug/Kg
Tetrachloroethene	127-18-4	5000	J	11000	1600	ug/Kg
Chlorobenzene	108-90-7	< 1800	U	11000	1800	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1400	U	11000	1400	ug/Kg
Ethyl Benzene	100-41-4	< 1700	U	11000	1700	ug/Kg
m&p-Xylenes	136777-61-2	< 3500	U	23000	3500	ug/Kg
o-Xylene	95-47-6	< 1600	U	11000	1600	ug/Kg
Styrene	100-42-5	< 2100	U	11000	2100	ug/Kg
Bromoform	75-25-2	< 1100	U	11000	1100	ug/Kg
Isopropylbenzene	98-82-8	< 1700	U	11000	1700	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1600	U	11000	1600	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 2300	U	11000	2300	ug/Kg
Bromobenzene	108-86-1	< 1400	U	11000	1400	ug/Kg
n-propylbenzene	103-61-5	< 1800	U	11000	1800	ug/Kg
2-Chlorotoluene	95-49-8	< 1900	U	11000	1900	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 2200	U	11000	2200	ug/Kg
4-Chlorotoluene	106-43-4	< 2300	U	11000	2300	ug/Kg
tert-Butylbenzene	98-06-6	< 2100	U	11000	2100	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	2900	J	11000	1900	ug/Kg
Sec-butylbenzene	135-98-8	< 2200	U	11000	2200	ug/Kg
p-Isopropyltoluene	99-87-6	< 2500	U	11000	2500	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1700	U	11000	1700	ug/Kg
1,4-Dichlorobenzene	106-46-7	3300	J	11000	2100	ug/Kg
n-Butylbenzene	104-51-8	< 2800	U	11000	2800	ug/Kg
1,2-Dichlorobenzene	95-50-1	3300	J	11000	2000	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 2100	U	11000	2100	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2900	U	11000	2900	ug/Kg
Hexachlorobutadiene	87-68-3	< 2100	U	11000	2100	ug/Kg
Naphthalene	91-20-3	6000	J	11000	2000	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-08 Client ID: 347-UIV-4 15

Date Collected: 6/16/03 Date Received: 6/19/03

Date Analyzed: 6/27/03 Matrix: SOIL

File ID: VF062705.D Analytical Run ID: VF061303

Dilution: 10 Instrument ID: MSVOAF

Analytical Method: 8260 Associated Blank: VBF0627M1

Sample Wt/Vol: 5.4 Units: g Soil Extract Vol: 10000

Soil Aliquot Vol: 100 % Moisture: 59

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 2400	U	11000	2400	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	348.1	70 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	376.9	75 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	452.6	91 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	429.3	86 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	1021451	9.62			
1,4-Difluorobenzene	540-36-3	1452562	12.20			
Chlorobenzene-d5	3114-55-4	1391655	20.45			
1,4-Dichlorobenzene-d4	3855-82-1	746353	26.37			
TENTITIVE IDENTIFIED COMPOUNDS						
Decane	124185	19000	J	24.69		ug/Kg
Tridecane	629505	15000	J	27.68		ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-01 **Client ID:** 347-UIW-5/15

Date Collected: 6/18/03 **Date Received:** 6/20/03
Date Analyzed: 6/27/03 **Matrix:** SOIL
File ID: VF062711.D **Analytical Run ID:** VF061303
Dilution: 10 **Instrument ID:** MSVOAF
Analytical Method: 8260 **Associated Blank:** VBF0627M1
Sample Wt/Wol: 5.5 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 53

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1400	U	9700	1400	ug/Kg
Chloromethane	74-87-3	< 990	U	9700	990	ug/Kg
Vinyl chloride	75-01-4	< 1500	U	9700	1500	ug/Kg
Bromomethane	74-83-9	< 740	U	9700	740	ug/Kg
Chloroethane	75-00-3	< 4700	U	9700	4700	ug/Kg
Trichlorofluoromethane	75-69-4	< 1400	U	9700	1400	ug/Kg
tert-Butyl Alcohol	75-65-0	< 7800	U	48000	7800	ug/Kg
1,1-Dichloroethene	75-35-4	< 1300	U	9700	1300	ug/Kg
Acrolein	107-02-8	< 9400	U	48000	9400	ug/Kg
Acrylonitrile	107-13-1	< 6800	U	48000	6800	ug/Kg
Acetone	67-64-1	< 6800	U	9700	6800	ug/Kg
Carbon disulfide	75-15-0	< 1400	U	9700	1400	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 2000	U	9700	2000	ug/Kg
Methylene Chloride	75-09-2	< 3400	U	9700	3400	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1600	U	9700	1600	ug/Kg
Vinyl Acetate	108-05-4	< 5100	U	48000	5100	ug/Kg
1,1-Dichloroethane	75-34-3	< 1300	U	9700	1300	ug/Kg
2-Butanone	78-93-3	< 4500	U	9700	4500	ug/Kg
Carbon Tetrachloride	56-23-5	< 910	U	9700	910	ug/Kg
2,2-Dichloropropane	594-20-7	< 1200	U	9700	1200	ug/Kg
cis-1,2-Dichloroethene	156-59-2	23000		9700	1200	ug/Kg
Bromochloromethane	74-97-5	< 4800	U	9700	4800	ug/Kg
Chloroform	67-66-3	< 1200	U	9700	1200	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1500	U	9700	1500	ug/Kg
1,1-Dichloropropene	563-43-2	< 5800	U	9700	5800	ug/Kg
Benzene	71-43-2	< 1400	U	9700	1400	ug/Kg
1,2-Dichloroethane	107-06-2	< 1100	U	9700	1100	ug/Kg
Trichloroethene	79-01-6	12000		9700	1400	ug/Kg
1,2-Dichloropropane	78-87-5	< 1400	U	9700	1400	ug/Kg
Dibromomethane	74-95-3	< 1200	U	9700	1200	ug/Kg
Bromodichloromethane	75-27-4	< 1400	U	9700	1400	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1600	U	9700	1600	ug/Kg
Toluene	108-88-3	< 1400	U	9700	1400	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 1300	U	9700	1300	ug/Kg

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-01 **Client ID:** 347-UIW-515

Date Collected: 6/18/03 **Date Received:** 6/20/03
Date Analyzed: 6/27/03 **Matrix:** SOIL
File ID: VF062711.D **Analytical Run ID:** VF061303
Dilution: 10 **Instrument ID:** MSVOAF
Analytical Method: 8260 **Associated Blank:** VBF0627M1
Sample Wt/Vol: 5.5 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 53

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1300	U	9700	1300	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1200	U	9700	1200	ug/Kg
1,3-Dichloropropane	142-28-9	< 1100	U	9700	1100	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 4200	U	9700	4200	ug/Kg
2-Hexanone	591-78-6	< 1200	U	9700	1200	ug/Kg
Dibromochloromethane	124-48-1	< 1300	U	9700	1300	ug/Kg
1,2-Dibromoethane	106-93-4	< 1200	U	9700	1200	ug/Kg
Tetrachloroethene	127-18-4	110000		9700	1400	ug/Kg
Chlorobenzene	108-90-7	< 1500	U	9700	1500	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1200	U	9700	1200	ug/Kg
Ethyl Benzene	100-41-4	< 1500	U	9700	1500	ug/Kg
m&p-Xylenes	136777-61-2	< 3000	U	19000	3000	ug/Kg
o-Xylene	95-47-6	< 1400	U	9700	1400	ug/Kg
Styrene	100-42-5	< 1800	U	9700	1800	ug/Kg
Bromoform	75-25-2	< 950	U	9700	950	ug/Kg
Isopropylbenzene	98-82-8	< 1400	U	9700	1400	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1400	U	9700	1400	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 2000	U	9700	2000	ug/Kg
Bromobenzene	108-86-1	< 1200	U	9700	1200	ug/Kg
n-propylbenzene	103-61-5	< 1500	U	9700	1500	ug/Kg
2-Chlorotoluene	95-49-8	< 1600	U	9700	1600	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 1900	U	9700	1900	ug/Kg
4-Chlorotoluene	106-43-4	< 2000	U	9700	2000	ug/Kg
tert-Butylbenzene	98-06-6	< 1800	U	9700	1800	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	4100	J	9700	1600	ug/Kg
Sec-butylbenzene	135-98-8	< 1900	U	9700	1900	ug/Kg
p-Isopropyltoluene	99-87-6	< 2100	U	9700	2100	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1400	U	9700	1400	ug/Kg
1,4-Dichlorobenzene	106-46-7	3500	J	9700	1800	ug/Kg
n-Butylbenzene	104-51-8	< 2400	U	9700	2400	ug/Kg
1,2-Dichlorobenzene	95-50-1	3700	J	9700	1700	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 1800	U	9700	1800	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2500	U	9700	2500	ug/Kg
Hexachlorobutadiene	87-68-3	< 1800	U	9700	1800	ug/Kg
Naphthalene	91-20-3	9000	J	9700	1800	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-01 Client ID: 347-UIW-515

Date Collected: 6/18/03 Date Received: 6/20/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062711.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 53

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 2000	U	9700	2000	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	396.9	79 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	441.9	88 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	544	109 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	500.1	100 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	1245724	9.59			
1,4-Difluorobenzene	540-36-3	1778618	12.16			
Chlorobenzene-d5	3114-55-4	1609614	20.45			
1,4-Dichlorobenzene-d4	3855-82-1	892573	26.37			
TENTITIVE IDENTIFIED COMPOUNDS						
Undecane	1120214	12000	J	27.67		ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-09 Client ID: 347-UIW-6 16.5

Date Collected: 6/16/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062706.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 54

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1500	U	11000	1500	ug/Kg
Chloromethane	74-87-3	< 1100	U	11000	1100	ug/Kg
Vinyl chloride	75-01-4	< 1700	U	11000	1700	ug/Kg
Bromomethane	74-83-9	< 830	U	11000	830	ug/Kg
Chloroethane	75-00-3	< 5300	U	11000	5300	ug/Kg
Trichlorofluoromethane	75-69-4	< 1600	U	11000	1600	ug/Kg
tert-Butyl Alcohol	75-65-0	< 8700	U	54000	8700	ug/Kg
1,1-Dichloroethene	75-35-4	< 1500	U	11000	1500	ug/Kg
Acrolein	107-02-8	< 11000	U	54000	11000	ug/Kg
Acrylonitrile	107-13-1	< 7600	U	54000	7600	ug/Kg
Acetone	67-64-1	< 7700	U	11000	7700	ug/Kg
Carbon disulfide	75-15-0	3100	J	11000	1600	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 2300	U	11000	2300	ug/Kg
Methylene Chloride	75-09-2	< 3800	U	11000	3800	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1800	U	11000	1800	ug/Kg
Vinyl Acetate	108-05-4	< 5700	U	54000	5700	ug/Kg
1,1-Dichloroethane	75-34-3	< 1400	U	11000	1400	ug/Kg
2-Butanone	78-93-3	< 5000	U	11000	5000	ug/Kg
Carbon Tetrachloride	56-23-5	< 1000	U	11000	1000	ug/Kg
2,2-Dichloropropane	594-20-7	< 1400	U	11000	1400	ug/Kg
cis-1,2-Dichloroethene	156-59-2	30000		11000	1300	ug/Kg
Bromochloromethane	74-97-5	< 5400	U	11000	5400	ug/Kg
Chloroform	67-66-3	< 1300	U	11000	1300	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1600	U	11000	1600	ug/Kg
1,1-Dichloropropene	563-43-2	< 6500	U	11000	6500	ug/Kg
Benzene	71-43-2	< 1500	U	11000	1500	ug/Kg
1,2-Dichloroethane	107-06-2	< 1200	U	11000	1200	ug/Kg
Trichloroethene	79-01-6	8200	J	11000	1600	ug/Kg
1,2-Dichloropropane	78-87-5	< 1600	U	11000	1600	ug/Kg
Dibromomethane	74-95-3	< 1300	U	11000	1300	ug/Kg
Bromodichloromethane	75-27-4	< 1600	U	11000	1600	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1800	U	11000	1800	ug/Kg
Toluene	108-88-3	2500	J	11000	1500	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 1400	U	11000	1400	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-09 Client ID: 347-UIW-6 16.5

Date Collected: 6/16/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062706.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 54

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1400	U	11000	1400	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1400	U	11000	1400	ug/Kg
1,3-Dichloropropane	142-28-9	< 1200	U	11000	1200	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 4700	U	11000	4700	ug/Kg
2-Hexanone	591-78-6	< 1300	U	11000	1300	ug/Kg
Dibromochloromethane	124-48-1	< 1400	U	11000	1400	ug/Kg
1,2-Dibromoethane	106-93-4	< 1400	U	11000	1400	ug/Kg
Tetrachloroethene	127-18-4	7200	J	11000	1500	ug/Kg
Chlorobenzene	108-90-7	< 1700	U	11000	1700	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1400	U	11000	1400	ug/Kg
Ethyl Benzene	100-41-4	< 1600	U	11000	1600	ug/Kg
m&p-Xylenes	136777-61-2	< 3300	U	22000	3300	ug/Kg
o-Xylene	95-47-6	< 1600	U	11000	1600	ug/Kg
Styrene	100-42-5	< 2000	U	11000	2000	ug/Kg
Bromoform	75-25-2	< 1100	U	11000	1100	ug/Kg
Isopropylbenzene	98-82-8	< 1600	U	11000	1600	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1500	U	11000	1500	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 2200	U	11000	2200	ug/Kg
Bromobenzene	108-86-1	< 1300	U	11000	1300	ug/Kg
n-propylbenzene	103-61-5	< 1700	U	11000	1700	ug/Kg
2-Chlorotoluene	95-49-8	< 1800	U	11000	1800	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 2100	U	11000	2100	ug/Kg
4-Chlorotoluene	106-43-4	< 2200	U	11000	2200	ug/Kg
tert-Butylbenzene	98-06-6	< 2000	U	11000	2000	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	4400	J	11000	1800	ug/Kg
Sec-butylbenzene	135-98-8	< 2100	U	11000	2100	ug/Kg
p-Isopropyltoluene	99-87-6	< 2400	U	11000	2400	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1600	U	11000	1600	ug/Kg
1,4-Dichlorobenzene	106-46-7	3100	J	11000	2000	ug/Kg
n-Butylbenzene	104-51-8	< 2700	U	11000	2700	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 1900	U	11000	1900	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 2000	U	11000	2000	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2800	U	11000	2800	ug/Kg
Hexachlorobutadiene	87-68-3	< 2000	U	11000	2000	ug/Kg
Naphthalene	91-20-3	3700	J	11000	2000	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-09 Client ID: 347-UIW-6 16.5

Date Collected: 6/16/03 Date Received: 6/19/03

Date Analyzed: 6/27/03 Matrix: SOIL

File ID: VF062706.D Analytical Run ID: VF061303

Dilution: 10 Instrument ID: MSVOAF

Analytical Method: 8260 Associated Blank: VBF0627M1

Sample Wt/Wol: 5.0 Units: g Soil Extract Vol: 10000

Soil Aliquot Vol: 100 % Moisture: 54

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 2300	U	11000	2300	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	457.7	92 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	471.1	94 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	566.8	113 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	487.7	98 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	871856	9.60			
1,4-Difluorobenzene	540-36-3	1286756	12.17			
Chlorobenzene-d5	3114-55-4	1216729	20.44			
1,4-Dichlorobenzene-d4	3855-82-1	530157	26.37			
TENTITIVE IDENTIFIED COMPOUNDS						
Decane	124185	14000	J	24.68		ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-10 Client ID: 347-UIW-718

Date Collected: 6/16/03 Date Received: 6/19/03

Date Analyzed: 6/27/03 Matrix: SOIL

File ID: VF062707.D Analytical Run ID: VF061303

Dilution: 10 Instrument ID: MSVOAF

Analytical Method: 8260 Associated Blank: VBF0627M1

Sample Wt/Wol: 5.1 Units: g Soil Extract Vol: 10000

Soil Aliquot Vol: 100 % Moisture: 43

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1200	U	8500	1200	ug/Kg
Chloromethane	74-87-3	< 870	U	8500	870	ug/Kg
Vinyl chloride	75-01-4	< 1300	U	8500	1300	ug/Kg
Bromomethane	74-83-9	< 650	U	8500	650	ug/Kg
Chloroethane	75-00-3	< 4100	U	8500	4100	ug/Kg
Trichlorofluoromethane	75-69-4	< 1200	U	8500	1200	ug/Kg
tert-Butyl Alcohol	75-65-0	< 6900	U	43000	6900	ug/Kg
1,1-Dichloroethene	75-35-4	< 1200	U	8500	1200	ug/Kg
Acrolein	107-02-8	< 8300	U	43000	8300	ug/Kg
Acrylonitrile	107-13-1	< 6000	U	43000	6000	ug/Kg
Acetone	67-64-1	< 6000	U	8500	6000	ug/Kg
Carbon disulfide	75-15-0	< 1200	U	8500	1200	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 1800	U	8500	1800	ug/Kg
Methylene Chloride	75-09-2	< 3000	U	8500	3000	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1400	U	8500	1400	ug/Kg
Vinyl Acetate	108-05-4	< 4500	U	43000	4500	ug/Kg
1,1-Dichloroethane	75-34-3	< 1100	U	8500	1100	ug/Kg
2-Butanone	78-93-3	< 3900	U	8500	3900	ug/Kg
Carbon Tetrachloride	56-23-5	< 800	U	8500	800	ug/Kg
2,2-Dichloropropane	594-20-7	< 1100	U	8500	1100	ug/Kg
cis-1,2-Dichloroethene	156-59-2	6200	J	8500	1100	ug/Kg
Bromochloromethane	74-97-5	< 4200	U	8500	4200	ug/Kg
Chloroform	67-66-3	< 1000	U	8500	1000	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1300	U	8500	1300	ug/Kg
1,1-Dichloropropene	563-43-2	< 5100	U	8500	5100	ug/Kg
Benzene	71-43-2	< 1200	U	8500	1200	ug/Kg
1,2-Dichloroethane	107-06-2	< 960	U	8500	960	ug/Kg
Trichloroethene	79-01-6	10000		8500	1200	ug/Kg
1,2-Dichloropropane	78-87-5	< 1200	U	8500	1200	ug/Kg
Dibromomethane	74-95-3	< 1000	U	8500	1000	ug/Kg
Bromodichloromethane	75-27-4	< 1200	U	8500	1200	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1400	U	8500	1400	ug/Kg
Toluene	108-88-3	< 1200	U	8500	1200	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 1100	U	8500	1100	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-10 Client ID: 347-UIW-718

Date Collected: 6/16/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062707.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 5.1 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 43

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1100	U	8500	1100	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1100	U	8500	1100	ug/Kg
1,3-Dichloropropane	142-28-9	< 970	U	8500	970	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 3700	U	8500	3700	ug/Kg
2-Hexanone	591-78-6	< 1000	U	8500	1000	ug/Kg
Dibromochloromethane	124-48-1	< 1100	U	8500	1100	ug/Kg
1,2-Dibromoethane	106-93-4	< 1100	U	8500	1100	ug/Kg
Tetrachloroethene	127-18-4	77000		8500	1200	ug/Kg
Chlorobenzene	108-90-7	< 1300	U	8500	1300	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1100	U	8500	1100	ug/Kg
Ethyl Benzene	100-41-4	< 1300	U	8500	1300	ug/Kg
m&p-Xylenes	136777-61-2	< 2600	U	17000	2600	ug/Kg
o-Xylene	95-47-6	< 1200	U	8500	1200	ug/Kg
Styrene	100-42-5	< 1600	U	8500	1600	ug/Kg
Bromoform	75-25-2	< 840	U	8500	840	ug/Kg
Isopropylbenzene	98-82-8	< 1300	U	8500	1300	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1200	U	8500	1200	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 1800	U	8500	1800	ug/Kg
Bromobenzene	108-86-1	< 1000	U	8500	1000	ug/Kg
n-propylbenzene	103-61-5	< 1400	U	8500	1400	ug/Kg
2-Chlorotoluene	95-49-8	< 1400	U	8500	1400	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 1700	U	8500	1700	ug/Kg
4-Chlorotoluene	106-43-4	< 1700	U	8500	1700	ug/Kg
tert-Butylbenzene	98-06-6	< 1600	U	8500	1600	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 1400	U	8500	1400	ug/Kg
Sec-butylbenzene	135-98-8	< 1600	U	8500	1600	ug/Kg
p-Isopropyltoluene	99-87-6	< 1900	U	8500	1900	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1300	U	8500	1300	ug/Kg
1,4-Dichlorobenzene	106-46-7	2800	J	8500	1600	ug/Kg
n-Butylbenzene	104-51-8	< 2100	U	8500	2100	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 1500	U	8500	1500	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 1600	U	8500	1600	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2200	U	8500	2200	ug/Kg
Hexachlorobutadiene	87-68-3	< 1600	U	8500	1600	ug/Kg
Naphthalene	91-20-3	< 1500	U	8500	1500	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-10 Client ID: 347-UIV-4-18

Date Collected: 6/16/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062707.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Wol: 5.1 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 43

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 1800	U	8500	1800	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	500.9	100 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	487.7	98 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	616	123 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	566.4	113 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	788275	9.60			
1,4-Difluorobenzene	540-36-3	1188638	12.17			
Chlorobenzene-d5	3114-55-4	1179247	20.44			
1,4-Dichlorobenzene-d4	3855-82-1	662887	26.37			

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-11 Client ID: 347-UIW-8/15

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062709.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 49

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1300	U	9000	1300	ug/Kg
Chloromethane	74-87-3	< 910	U	9000	910	ug/Kg
Vinyl chloride	75-01-4	< 1400	U	9000	1400	ug/Kg
Bromomethane	74-83-9	< 690	U	9000	690	ug/Kg
Chloroethane	75-00-3	< 4300	U	9000	4300	ug/Kg
Trichlorofluoromethane	75-69-4	< 1300	U	9000	1300	ug/Kg
tert-Butyl Alcohol	75-65-0	< 7200	U	45000	7200	ug/Kg
1,1-Dichloroethene	75-35-4	< 1200	U	9000	1200	ug/Kg
Acrolein	107-02-8	< 8700	U	45000	8700	ug/Kg
Acrylonitrile	107-13-1	< 6300	U	45000	6300	ug/Kg
Acetone	67-64-1	< 6300	U	9000	6300	ug/Kg
Carbon disulfide	75-15-0	5000	J	9000	1300	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 1900	U	9000	1900	ug/Kg
Methylene Chloride	75-09-2	< 3100	U	9000	3100	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1500	U	9000	1500	ug/Kg
Vinyl Acetate	108-05-4	< 4700	U	45000	4700	ug/Kg
1,1-Dichloroethane	75-34-3	< 1200	U	9000	1200	ug/Kg
2-Butanone	78-93-3	< 4100	U	9000	4100	ug/Kg
Carbon Tetrachloride	56-23-5	< 840	U	9000	840	ug/Kg
2,2-Dichloropropane	594-20-7	< 1100	U	9000	1100	ug/Kg
cis-1,2-Dichloroethene	156-59-2	63000		9000	1100	ug/Kg
Bromochloromethane	74-97-5	< 4500	U	9000	4500	ug/Kg
Chloroform	67-66-3	< 1100	U	9000	1100	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1300	U	9000	1300	ug/Kg
1,1-Dichloropropene	563-43-2	< 5400	U	9000	5400	ug/Kg
Benzene	71-43-2	< 1300	U	9000	1300	ug/Kg
1,2-Dichloroethane	107-06-2	< 1000	U	9000	1000	ug/Kg
Trichloroethene	79-01-6	12000		9000	1300	ug/Kg
1,2-Dichloropropane	78-87-5	< 1300	U	9000	1300	ug/Kg
Dibromomethane	74-95-3	< 1100	U	9000	1100	ug/Kg
Bromodichloromethane	75-27-4	< 1300	U	9000	1300	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1400	U	9000	1400	ug/Kg
Toluene	108-88-3	9000		9000	1300	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 1200	U	9000	1200	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-11 Client ID: 347-UIW-8-15

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062709.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 49

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1200	U	9000	1200	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1100	U	9000	1100	ug/Kg
1,3-Dichloropropane	142-28-9	< 1000	U	9000	1000	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 3800	U	9000	3800	ug/Kg
2-Hexanone	591-78-6	< 1100	U	9000	1100	ug/Kg
Dibromochloromethane	124-48-1	< 1200	U	9000	1200	ug/Kg
1,2-Dibromoethane	106-93-4	< 1100	U	9000	1100	ug/Kg
Tetrachloroethene	127-18-4	50000		9000	1300	ug/Kg
Chlorobenzene	108-90-7	< 1400	U	9000	1400	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1100	U	9000	1100	ug/Kg
Ethyl Benzene	100-41-4	< 1400	U	9000	1400	ug/Kg
m&p-Xylenes	136777-61-2	< 2700	U	18000	2700	ug/Kg
o-Xylene	95-47-6	< 1300	U	9000	1300	ug/Kg
Styrene	100-42-5	< 1700	U	9000	1700	ug/Kg
Bromoform	75-25-2	< 880	U	9000	880	ug/Kg
Isopropylbenzene	98-82-8	< 1300	U	9000	1300	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1300	U	9000	1300	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 1800	U	9000	1800	ug/Kg
Bromobenzene	108-86-1	< 1100	U	9000	1100	ug/Kg
n-propylbenzene	103-61-5	< 1400	U	9000	1400	ug/Kg
2-Chlorotoluene	95-49-8	< 1500	U	9000	1500	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	2100	J	9000	1700	ug/Kg
4-Chlorotoluene	106-43-4	< 1800	U	9000	1800	ug/Kg
tert-Butylbenzene	98-06-6	< 1700	U	9000	1700	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	5300	J	9000	1500	ug/Kg
Sec-butylbenzene	135-98-8	< 1700	U	9000	1700	ug/Kg
p-Isopropyltoluene	99-87-6	< 2000	U	9000	2000	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1300	U	9000	1300	ug/Kg
1,4-Dichlorobenzene	106-46-7	2800	J	9000	1700	ug/Kg
n-Butylbenzene	104-51-8	< 2200	U	9000	2200	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 1600	U	9000	1600	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 1600	U	9000	1600	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2300	U	9000	2300	ug/Kg
Hexachlorobutadiene	87-68-3	< 1700	U	9000	1700	ug/Kg
Naphthalene	91-20-3	6100	J	9000	1600	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-11 Client ID: 347-UIW-8 15

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062709.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 49

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 1900	U	9000	1900	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	590.6	118 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	490.1	98 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	668.7	134 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	632.5	127 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	639123	9.58			
1,4-Difluorobenzene	540-36-3	1035317	12.16			
Chlorobenzene-d5	3114-55-4	1083209	20.44			
1,4-Dichlorobenzene-d4	3855-82-1	586219	26.38			
TENTITIVE IDENTIFIED COMPOUNDS						
Decane	124185	25000	J	24.68		ug/Kg
Decane, 4-methyl-	2847725	10000	J	25.41		ug/Kg
Cyclohexane, butyl-	1678939	11000	J	25.98		ug/Kg
Hexane, 2,2,5,5-tetramethyl-	1071814	11000	J	26.56		ug/Kg
Tridecane	629505	16000	J	27.68		ug/Kg
Unknown	0	9400	J	31.90		ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-12 Client ID: 347-UIW-9 15

Date Collected: 6/17/03 Date Received: 6/19/03

Date Analyzed: 6/27/03 Matrix: SOIL

File ID: VF062708.D Analytical Run ID: VF061303

Dilution: 10 Instrument ID: MSVOAF

Analytical Method: 8260 Associated Blank: VBF0627M1

Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000

Soil Aliquot Vol: 100 % Moisture: 53

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1400	U	9700	1400	ug/Kg
Chloromethane	74-87-3	< 990	U	9700	990	ug/Kg
Vinyl chloride	75-01-4	< 1500	U	9700	1500	ug/Kg
Bromomethane	74-83-9	< 740	U	9700	740	ug/Kg
Chloroethane	75-00-3	< 4700	U	9700	4700	ug/Kg
Trichlorofluoromethane	75-69-4	< 1400	U	9700	1400	ug/Kg
tert-Butyl Alcohol	75-65-0	< 7800	U	48000	7800	ug/Kg
1,1-Dichloroethene	75-35-4	< 1300	U	9700	1300	ug/Kg
Acrolein	107-02-8	< 9400	U	48000	9400	ug/Kg
Acrylonitrile	107-13-1	< 6800	U	48000	6800	ug/Kg
Acetone	67-64-1	< 6800	U	9700	6800	ug/Kg
Carbon disulfide	75-15-0	< 1400	U	9700	1400	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 2000	U	9700	2000	ug/Kg
Methylene Chloride	75-09-2	< 3400	U	9700	3400	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1600	U	9700	1600	ug/Kg
Vinyl Acetate	108-05-4	< 5100	U	48000	5100	ug/Kg
1,1-Dichloroethane	75-34-3	< 1300	U	9700	1300	ug/Kg
2-Butanone	78-93-3	< 4500	U	9700	4500	ug/Kg
Carbon Tetrachloride	56-23-5	< 910	U	9700	910	ug/Kg
2,2-Dichloropropane	594-20-7	< 1200	U	9700	1200	ug/Kg
cis-1,2-Dichloroethene	156-59-2	10000		9700	1200	ug/Kg
Bromochloromethane	74-97-5	< 4800	U	9700	4800	ug/Kg
Chloroform	67-66-3	< 1200	U	9700	1200	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1500	U	9700	1500	ug/Kg
1,1-Dichloropropene	563-43-2	< 5800	U	9700	5800	ug/Kg
Benzene	71-43-2	< 1400	U	9700	1400	ug/Kg
1,2-Dichloroethane	107-06-2	< 1100	U	9700	1100	ug/Kg
Trichloroethene	79-01-6	3800	J	9700	1400	ug/Kg
1,2-Dichloropropane	78-87-5	< 1400	U	9700	1400	ug/Kg
Dibromomethane	74-95-3	< 1200	U	9700	1200	ug/Kg
Bromodichloromethane	75-27-4	< 1400	U	9700	1400	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1600	U	9700	1600	ug/Kg
Toluene	108-88-3	< 1400	U	9700	1400	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 1300	U	9700	1300	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-12 Client ID: 347-UIW-915

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062708.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 5.5 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 53

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1300	U	9700	1300	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1200	U	9700	1200	ug/Kg
1,3-Dichloropropane	142-28-9	< 1100	U	9700	1100	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 4200	U	9700	4200	ug/Kg
2-Hexanone	591-78-6	< 1200	U	9700	1200	ug/Kg
Dibromochloromethane	124-48-1	< 1300	U	9700	1300	ug/Kg
1,2-Dibromoethane	106-93-4	< 1200	U	9700	1200	ug/Kg
Tetrachloroethene	127-18-4	16000		9700	1400	ug/Kg
Chlorobenzene	108-90-7	< 1500	U	9700	1500	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1200	U	9700	1200	ug/Kg
Ethyl Benzene	100-41-4	< 1500	U	9700	1500	ug/Kg
m&p-Xylenes	136777-61-2	< 3000	U	19000	3000	ug/Kg
o-Xylene	95-47-6	< 1400	U	9700	1400	ug/Kg
Styrene	100-42-5	< 1800	U	9700	1800	ug/Kg
Bromoform	75-25-2	< 950	U	9700	950	ug/Kg
Isopropylbenzene	98-82-8	< 1400	U	9700	1400	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1400	U	9700	1400	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 2000	U	9700	2000	ug/Kg
Bromobenzene	108-86-1	< 1200	U	9700	1200	ug/Kg
n-propylbenzene	103-61-5	< 1500	U	9700	1500	ug/Kg
2-Chlorotoluene	95-49-8	< 1600	U	9700	1600	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 1900	U	9700	1900	ug/Kg
4-Chlorotoluene	106-43-4	< 2000	U	9700	2000	ug/Kg
tert-Butylbenzene	98-06-6	< 1800	U	9700	1800	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 1600	U	9700	1600	ug/Kg
Sec-butylbenzene	135-98-8	< 1900	U	9700	1900	ug/Kg
p-Isopropyltoluene	99-87-6	< 2100	U	9700	2100	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1400	U	9700	1400	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 1800	U	9700	1800	ug/Kg
n-Butylbenzene	104-51-8	< 2400	U	9700	2400	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 1700	U	9700	1700	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 1800	U	9700	1800	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2500	U	9700	2500	ug/Kg
Hexachlorobutadiene	87-68-3	< 1800	U	9700	1800	ug/Kg
Naphthalene	91-20-3	< 1800	U	9700	1800	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-12 Client ID: 347-UIV-9 15

Date Collected: 6/17/03 Date Received: 6/19/03

Date Analyzed: 6/27/03 Matrix: SOIL

File ID: VF062708.D Analytical Run ID: VF061303

Dilution: 10 Instrument ID: MSVOAF

Analytical Method: 8260 Associated Blank: VBF0627M1

Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000

Soil Aliquot Vol: 100 % Moisture: 53

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 2000	U	9700	2000	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	576.8	115 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	517	103 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	649.6	130 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	614.8	123 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	599741	9.60			
1,4-Difluorobenzene	540-36-3	930824	12.16			
Chlorobenzene-d5	3114-55-4	963129	20.44			
1,4-Dichlorobenzene-d4	3855-82-1	514153	26.38			
TENTITIVE IDENTIFIED COMPOUNDS						
1-Octanol, 2-butyl-	3913028	11000	J	25.97		ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-13 Client ID: 347-UIW-10 6

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062710.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 6.2 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 39

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 930	U	6600	930	ug/Kg
Chloromethane	74-87-3	< 670	U	6600	670	ug/Kg
Vinyl chloride	75-01-4	< 1000	U	6600	1000	ug/Kg
Bromomethane	74-83-9	< 500	U	6600	500	ug/Kg
Chloroethane	75-00-3	< 3200	U	6600	3200	ug/Kg
Trichlorofluoromethane	75-69-4	< 960	U	6600	960	ug/Kg
tert-Butyl Alcohol	75-65-0	< 5300	U	33000	5300	ug/Kg
1,1-Dichloroethene	75-35-4	< 910	U	6600	910	ug/Kg
Acrolein	107-02-8	< 6400	U	33000	6400	ug/Kg
Acrylonitrile	107-13-1	< 4600	U	33000	4600	ug/Kg
Acetone	67-64-1	< 4600	U	6600	4600	ug/Kg
Carbon disulfide	75-15-0	< 950	U	6600	950	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 1400	U	6600	1400	ug/Kg
Methylene Chloride	75-09-2	< 2300	U	6600	2300	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1100	U	6600	1100	ug/Kg
Vinyl Acetate	108-05-4	< 3500	U	33000	3500	ug/Kg
1,1-Dichloroethane	75-34-3	< 870	U	6600	870	ug/Kg
2-Butanone	78-93-3	< 3000	U	6600	3000	ug/Kg
Carbon Tetrachloride	56-23-5	< 620	U	6600	620	ug/Kg
2,2-Dichloropropane	594-20-7	< 830	U	6600	830	ug/Kg
cis-1,2-Dichloroethene	156-59-2	72000		6600	810	ug/Kg
Bromochloromethane	74-97-5	< 3300	U	6600	3300	ug/Kg
Chloroform	67-66-3	< 810	U	6600	810	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 990	U	6600	990	ug/Kg
1,1-Dichloropropene	563-43-2	< 3900	U	6600	3900	ug/Kg
Benzene	71-43-2	< 930	U	6600	930	ug/Kg
1,2-Dichloroethane	107-06-2	< 740	U	6600	740	ug/Kg
Trichloroethene	79-01-6	< 940	U	6600	940	ug/Kg
1,2-Dichloropropane	78-87-5	< 960	U	6600	960	ug/Kg
Dibromomethane	74-95-3	< 800	U	6600	800	ug/Kg
Bromodichloromethane	75-27-4	< 960	U	6600	960	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1100	U	6600	1100	ug/Kg
Toluene	108-88-3	< 940	U	6600	940	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 870	U	6600	870	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-13 Client ID: 347-UIW-10-16

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062710.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Wol: 6.2 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 39

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 880	U	6600	880	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 820	U	6600	820	ug/Kg
1,3-Dichloropropane	142-28-9	< 750	U	6600	750	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 2800	U	6600	2800	ug/Kg
2-Hexanone	591-78-6	< 790	U	6600	790	ug/Kg
Dibromochloromethane	124-48-1	< 860	U	6600	860	ug/Kg
1,2-Dibromoethane	106-93-4	< 830	U	6600	830	ug/Kg
Tetrachloroethene	127-18-4	< 930	U	6600	930	ug/Kg
Chlorobenzene	108-90-7	< 1000	U	6600	1000	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 840	U	6600	840	ug/Kg
Ethyl Benzene	100-41-4	< 1000	U	6600	1000	ug/Kg
m&p-Xylenes	136777-61-2	< 2000	U	13000	2000	ug/Kg
o-Xylene	95-47-6	< 950	U	6600	950	ug/Kg
Styrene	100-42-5	< 1200	U	6600	1200	ug/Kg
Bromoform	75-25-2	< 650	U	6600	650	ug/Kg
Isopropylbenzene	98-82-8	< 990	U	6600	990	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 930	U	6600	930	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 1400	U	6600	1400	ug/Kg
Bromobenzene	108-86-1	< 790	U	6600	790	ug/Kg
n-propylbenzene	103-61-5	< 1000	U	6600	1000	ug/Kg
2-Chlorotoluene	95-49-8	< 1100	U	6600	1100	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	1400	J	6600	1300	ug/Kg
4-Chlorotoluene	106-43-4	< 1300	U	6600	1300	ug/Kg
tert-Butylbenzene	98-06-6	< 1200	U	6600	1200	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	3500	J	6600	1100	ug/Kg
Sec-butylbenzene	135-98-8	< 1300	U	6600	1300	ug/Kg
p-Isopropyltoluene	99-87-6	< 1400	U	6600	1400	ug/Kg
1,3-Dichlorobenzene	541-73-1	23000		6600	970	ug/Kg
1,4-Dichlorobenzene	106-46-7	37000		6600	1200	ug/Kg
n-Butylbenzene	104-51-8	< 1600	U	6600	1600	ug/Kg
1,2-Dichlorobenzene	95-50-1	95000		6600	1200	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 1200	U	6600	1200	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	43000		6600	1700	ug/Kg
Hexachlorobutadiene	87-68-3	< 1200	U	6600	1200	ug/Kg
Naphthalene	91-20-3	4500	J	6600	1200	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-13 Client ID: 347-UIV-10 16

Date Collected: 6/17/03 Date Received: 6/19/03
Date Analyzed: 6/27/03 Matrix: SOIL
File ID: VF062710.D Analytical Run ID: VF061303
Dilution: 10 Instrument ID: MSVOAF
Analytical Method: 8260 Associated Blank: VBF0627M1
Sample Wt/Vol: 6.2 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 39

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	14000		6600	1400	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	564.1	113 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	517	103 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	643.7	129 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	614.7	123 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	676744	9.59			
1,4-Difluorobenzene	540-36-3	1036354	12.17			
Chlorobenzene-d5	3114-55-4	1092161	20.44			
1,4-Dichlorobenzene-d4	3855-82-1	579904	26.36			

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-14 Client ID: 347-TRIPBLK-61803

Date Collected: 6/18/03 Date Received: 6/19/03
Date Analyzed: 6/24/03 Matrix: SOIL
File ID: VK062422.D Analytical Run ID: VK061303
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0624M1
Sample Wt/Vol: 5.0 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 0

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 70	U	500	70	ug/Kg
Chloromethane	74-87-3	< 51	U	500	51	ug/Kg
Vinyl chloride	75-01-4	< 79	U	500	79	ug/Kg
Bromomethane	74-83-9	< 38	U	500	38	ug/Kg
Chloroethane	75-00-3	< 240	U	500	240	ug/Kg
Trichlorofluoromethane	75-69-4	< 73	U	500	73	ug/Kg
tert-Butyl Alcohol	75-65-0	< 400	U	2500	400	ug/Kg
1,1-Dichloroethene	75-35-4	< 69	U	500	69	ug/Kg
Acrolein	107-02-8	< 490	U	2500	490	ug/Kg
Acrylonitrile	107-13-1	< 350	U	2500	350	ug/Kg
Acetone	67-64-1	< 350	U	500	350	ug/Kg
Carbon disulfide	75-15-0	< 72	U	500	72	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 100	U	500	100	ug/Kg
Methylene Chloride	75-09-2	< 180	U	500	180	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 81	U	500	81	ug/Kg
Vinyl Acetate	108-05-4	< 260	U	2500	260	ug/Kg
1,1-Dichloroethane	75-34-3	< 66	U	500	66	ug/Kg
2-Butanone	78-93-3	< 230	U	500	230	ug/Kg
Carbon Tetrachloride	56-23-5	< 47	U	500	47	ug/Kg
2,2-Dichloropropane	594-20-7	< 63	U	500	63	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 62	U	500	62	ug/Kg
Bromochloromethane	74-97-5	< 250	U	500	250	ug/Kg
Chloroform	67-66-3	< 61	U	500	61	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 75	U	500	75	ug/Kg
1,1-Dichloropropene	563-43-2	< 300	U	500	300	ug/Kg
Benzene	71-43-2	< 70	U	500	70	ug/Kg
1,2-Dichloroethane	107-06-2	< 56	U	500	56	ug/Kg
Trichloroethene	79-01-6	< 72	U	500	72	ug/Kg
1,2-Dichloropropane	78-87-5	< 73	U	500	73	ug/Kg
Dibromomethane	74-95-3	< 61	U	500	61	ug/Kg
Bromodichloromethane	75-27-4	< 73	U	500	73	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 81	U	500	81	ug/Kg
Toluene	108-88-3	< 71	U	500	71	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 66	U	500	66	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-14 Client ID: 347-TRIPBLK-61803

Date Collected: 6/18/03 Date Received: 6/19/03
Date Analyzed: 6/24/03 Matrix: SOIL
File ID: VK062422.D Analytical Run ID: VK061303
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0624M1
Sample Wt/Wol: 5.0 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 0

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 66	U	500	66	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 62	U	500	62	ug/Kg
1,3-Dichloropropane	142-28-9	< 57	U	500	57	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 210	U	500	210	ug/Kg
2-Hexanone	591-78-6	< 60	U	500	60	ug/Kg
Dibromochloromethane	124-48-1	< 66	U	500	66	ug/Kg
1,2-Dibromoethane	106-93-4	< 63	U	500	63	ug/Kg
Tetrachloroethene	127-18-4	< 70	U	500	70	ug/Kg
Chlorobenzene	108-90-7	< 78	U	500	78	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 64	U	500	64	ug/Kg
Ethyl Benzene	100-41-4	< 76	U	500	76	ug/Kg
m&p-Xylenes	136777-61-2	< 150	U	1000	150	ug/Kg
o-Xylene	95-47-6	< 72	U	500	72	ug/Kg
Styrene	100-42-5	< 92	U	500	92	ug/Kg
Bromoform	75-25-2	< 49	U	500	49	ug/Kg
Isopropylbenzene	98-82-8	< 75	U	500	75	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 70	U	500	70	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 100	U	500	100	ug/Kg
Bromobenzene	108-86-1	< 60	U	500	60	ug/Kg
n-propylbenzene	103-61-5	< 80	U	500	80	ug/Kg
2-Chlorotoluene	95-49-8	< 85	U	500	85	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 97	U	500	97	ug/Kg
4-Chlorotoluene	106-43-4	< 100	U	500	100	ug/Kg
tert-Butylbenzene	98-06-6	< 94	U	500	94	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 82	U	500	82	ug/Kg
Sec-butylbenzene	135-98-8	< 96	U	500	96	ug/Kg
p-Isopropyltoluene	99-87-6	< 110	U	500	110	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 74	U	500	74	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 93	U	500	93	ug/Kg
n-Butylbenzene	104-51-8	< 120	U	500	120	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 88	U	500	88	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 91	U	500	91	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 130	U	500	130	ug/Kg
Hexachlorobutadiene	87-68-3	< 94	U	500	94	ug/Kg
Naphthalene	91-20-3	< 91	U	500	91	ug/Kg

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Volatiles

SDG No.: R2855

Client: Impact Environmental

Sample ID: R2855-14 Client ID: 347-TRIPBLK-61803

Date Collected: 6/18/03 Date Received: 6/19/03
Date Analyzed: 6/24/03 Matrix: SOIL
File ID: VK062422.D Analytical Run ID: VK061303
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0624M1
Sample Wt/Wol: 5.0 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 0

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 110	U	500	110	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	42.67	85 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	42.73	85 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	47.41	95 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	43	86 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	295748	4.49			
1,4-Difluorobenzene	540-36-3	550397	5.13			
Chlorobenzene-d5	3114-55-4	551671	7.56			
1,4-Dichlorobenzene-d4	3855-82-1	233607	8.96			

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-02 **Client ID:** 347-UIW-11-10

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062430.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Wol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 6

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 69	U	490	69	ug/Kg
Chloromethane	74-87-3	< 50	U	490	50	ug/Kg
Vinyl chloride	75-01-4	< 78	U	490	78	ug/Kg
Bromomethane	74-83-9	< 38	U	490	38	ug/Kg
Chloroethane	75-00-3	< 240	U	490	240	ug/Kg
Trichlorofluoromethane	75-69-4	< 72	U	490	72	ug/Kg
tert-Butyl Alcohol	75-65-0	< 390	U	2500	390	ug/Kg
1,1-Dichloroethene	75-35-4	< 68	U	490	68	ug/Kg
Acrolein	107-02-8	< 480	U	2500	480	ug/Kg
Acrylonitrile	107-13-1	< 350	U	2500	350	ug/Kg
Acetone	67-64-1	< 350	U	490	350	ug/Kg
Carbon disulfide	75-15-0	< 71	U	490	71	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 100	U	490	100	ug/Kg
Methylene Chloride	75-09-2	< 170	U	490	170	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 80	U	490	80	ug/Kg
Vinyl Acetate	108-05-4	< 260	U	2500	260	ug/Kg
1,1-Dichloroethane	75-34-3	< 65	U	490	65	ug/Kg
2-Butanone	78-93-3	< 230	U	490	230	ug/Kg
Carbon Tetrachloride	56-23-5	< 46	U	490	46	ug/Kg
2,2-Dichloropropane	594-20-7	< 62	U	490	62	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 61	U	490	61	ug/Kg
Bromochloromethane	74-97-5	< 240	U	490	240	ug/Kg
Chloroform	67-66-3	< 60	U	490	60	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 74	U	490	74	ug/Kg
1,1-Dichloropropene	563-43-2	< 290	U	490	290	ug/Kg
Benzene	71-43-2	< 69	U	490	69	ug/Kg
1,2-Dichloroethane	107-06-2	< 55	U	490	55	ug/Kg
Trichloroethene	79-01-6	< 70	U	490	70	ug/Kg
1,2-Dichloropropane	78-87-5	< 71	U	490	71	ug/Kg
Dibromomethane	74-95-3	< 60	U	490	60	ug/Kg
Bromodichloromethane	75-27-4	< 72	U	490	72	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 79	U	490	79	ug/Kg
Toluene	108-88-3	< 70	U	490	70	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 65	U	490	65	ug/Kg

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-02 **Client ID:** 347-UIW-11-10

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062430.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Wol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 6

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 65	U	490	65	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 61	U	490	61	ug/Kg
1,3-Dichloropropane	142-28-9	< 56	U	490	56	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 210	U	490	210	ug/Kg
2-Hexanone	591-78-6	< 59	U	490	59	ug/Kg
Dibromochloromethane	124-48-1	< 64	U	490	64	ug/Kg
1,2-Dibromoethane	106-93-4	< 62	U	490	62	ug/Kg
Tetrachloroethene	127-18-4	3300		490	69	ug/Kg
Chlorobenzene	108-90-7	< 77	U	490	77	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 63	U	490	63	ug/Kg
Ethyl Benzene	100-41-4	< 74	U	490	74	ug/Kg
m&p-Xylenes	136777-61-2	< 150	U	980	150	ug/Kg
o-Xylene	95-47-6	< 71	U	490	71	ug/Kg
Styrene	100-42-5	< 91	U	490	91	ug/Kg
Bromoform	75-25-2	< 48	U	490	48	ug/Kg
Isopropylbenzene	98-82-8	< 74	U	490	74	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 69	U	490	69	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 100	U	490	100	ug/Kg
Bromobenzene	108-86-1	< 59	U	490	59	ug/Kg
n-propylbenzene	103-61-5	< 78	U	490	78	ug/Kg
2-Chlorotoluene	95-49-8	< 83	U	490	83	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 95	U	490	95	ug/Kg
4-Chlorotoluene	106-43-4	< 100	U	490	100	ug/Kg
tert-Butylbenzene	98-06-6	< 92	U	490	92	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 81	U	490	81	ug/Kg
Sec-butylbenzene	135-98-8	< 95	U	490	95	ug/Kg
p-Isopropyltoluene	99-87-6	< 110	U	490	110	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 73	U	490	73	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 91	U	490	91	ug/Kg
n-Butylbenzene	104-51-8	< 120	U	490	120	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 87	U	490	87	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 90	U	490	90	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 130	U	490	130	ug/Kg
Hexachlorobutadiene	87-68-3	< 92	U	490	92	ug/Kg
Naphthalene	91-20-3	< 89	U	490	89	ug/Kg

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-02 **Client ID:** 347-UIV-11 10

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062430.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Vol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 6

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 100	U	490	100	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	54.91	110 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	42.38	85 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	44.74	89 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	45.39	91 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	313679	4.48			
1,4-Difluorobenzene	540-36-3	609558	5.12			
Chlorobenzene-d5	3114-55-4	588490	7.56			
1,4-Dichlorobenzene-d4	3855-82-1	265946	8.96			

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-03 **Client ID:** 347-UIW-12 12

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/27/03 **Matrix:** SOIL
File ID: VF062712.D **Analytical Run ID:** VF061303
Dilution: 10 **Instrument ID:** MSVOAF
Analytical Method: 8260 **Associated Blank:** VBF0627M1
Sample Wt/Vol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 47

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 1200	U	8800	1200	ug/Kg
Chloromethane	74-87-3	< 890	U	8800	890	ug/Kg
Vinyl chloride	75-01-4	< 1400	U	8800	1400	ug/Kg
Bromomethane	74-83-9	< 670	U	8800	670	ug/Kg
Chloroethane	75-00-3	< 4200	U	8800	4200	ug/Kg
Trichlorofluoromethane	75-69-4	< 1300	U	8800	1300	ug/Kg
tert-Butyl Alcohol	75-65-0	< 7000	U	44000	7000	ug/Kg
1,1-Dichloroethene	75-35-4	< 1200	U	8800	1200	ug/Kg
Acrolein	107-02-8	< 8500	U	44000	8500	ug/Kg
Acrylonitrile	107-13-1	< 6200	U	44000	6200	ug/Kg
Acetone	67-64-1	< 6200	U	8800	6200	ug/Kg
Carbon disulfide	75-15-0	< 1300	U	8800	1300	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 1800	U	8800	1800	ug/Kg
Methylene Chloride	75-09-2	< 3100	U	8800	3100	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 1400	U	8800	1400	ug/Kg
Vinyl Acetate	108-05-4	< 4600	U	44000	4600	ug/Kg
1,1-Dichloroethane	75-34-3	< 1200	U	8800	1200	ug/Kg
2-Butanone	78-93-3	< 4100	U	8800	4100	ug/Kg
Carbon Tetrachloride	56-23-5	< 820	U	8800	820	ug/Kg
2,2-Dichloropropane	594-20-7	< 1100	U	8800	1100	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 1100	U	8800	1100	ug/Kg
Bromochloromethane	74-97-5	< 4400	U	8800	4400	ug/Kg
Chloroform	67-66-3	< 1100	U	8800	1100	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 1300	U	8800	1300	ug/Kg
1,1-Dichloropropene	563-43-2	< 5200	U	8800	5200	ug/Kg
Benzene	71-43-2	< 1200	U	8800	1200	ug/Kg
1,2-Dichloroethane	107-06-2	< 990	U	8800	990	ug/Kg
Trichloroethene	79-01-6	< 1300	U	8800	1300	ug/Kg
1,2-Dichloropropane	78-87-5	< 1300	U	8800	1300	ug/Kg
Dibromomethane	74-95-3	< 1100	U	8800	1100	ug/Kg
Bromodichloromethane	75-27-4	< 1300	U	8800	1300	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 1400	U	8800	1400	ug/Kg
Toluene	108-88-3	< 1200	U	8800	1200	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 1200	U	8800	1200	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-03 **Client ID:** 347-UIW-12/12

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/27/03 **Matrix:** SOIL
File ID: VF062712.D **Analytical Run ID:** VF061303
Dilution: 10 **Instrument ID:** MSVOAF
Analytical Method: 8260 **Associated Blank:** VBF0627M1
Sample Wt/Vol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 47

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 1200	U	8800	1200	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 1100	U	8800	1100	ug/Kg
1,3-Dichloropropane	142-28-9	< 990	U	8800	990	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 3800	U	8800	3800	ug/Kg
2-Hexanone	591-78-6	< 1000	U	8800	1000	ug/Kg
Dibromochloromethane	124-48-1	< 1200	U	8800	1200	ug/Kg
1,2-Dibromoethane	106-93-4	< 1100	U	8800	1100	ug/Kg
Tetrachloroethene	127-18-4	< 1200	U	8800	1200	ug/Kg
Chlorobenzene	108-90-7	< 1400	U	8800	1400	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 1100	U	8800	1100	ug/Kg
Ethyl Benzene	100-41-4	< 1300	U	8800	1300	ug/Kg
m&p-Xylenes	136777-61-2	< 2700	U	18000	2700	ug/Kg
o-Xylene	95-47-6	< 1300	U	8800	1300	ug/Kg
Styrene	100-42-5	< 1600	U	8800	1600	ug/Kg
Bromoform	75-25-2	< 860	U	8800	860	ug/Kg
Isopropylbenzene	98-82-8	< 1300	U	8800	1300	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 1200	U	8800	1200	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 1800	U	8800	1800	ug/Kg
Bromobenzene	108-86-1	< 1100	U	8800	1100	ug/Kg
n-propylbenzene	103-61-5	< 1400	U	8800	1400	ug/Kg
2-Chlorotoluene	95-49-8	< 1500	U	8800	1500	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 1700	U	8800	1700	ug/Kg
4-Chlorotoluene	106-43-4	< 1800	U	8800	1800	ug/Kg
tert-Butylbenzene	98-06-6	< 1600	U	8800	1600	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 1400	U	8800	1400	ug/Kg
Sec-butylbenzene	135-98-8	< 1700	U	8800	1700	ug/Kg
p-Isopropyltoluene	99-87-6	< 1900	U	8800	1900	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 1300	U	8800	1300	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 1600	U	8800	1600	ug/Kg
n-Butylbenzene	104-51-8	< 2100	U	8800	2100	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 1500	U	8800	1500	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 1600	U	8800	1600	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 2300	U	8800	2300	ug/Kg
Hexachlorobutadiene	87-68-3	< 1600	U	8800	1600	ug/Kg
Naphthalene	91-20-3	2700	J	8800	1600	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-03 **Client ID:** 347-UIW-12-12

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/27/03 **Matrix:** SOIL
File ID: VF062712.D **Analytical Run ID:** VF061303
Dilution: 10 **Instrument ID:** MSVOAF
Analytical Method: 8260 **Associated Blank:** VBF0627M1
Sample Wt/Wol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 47

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 1800	U	8800	1800	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	522.3	104 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	499.2	100 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	627.8	126 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	579	116 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	769953	9.57			
1,4-Difluorobenzene	540-36-3	1169434	12.15			
Chlorobenzene-d5	3114-55-4	1164530	20.42			
1,4-Dichlorobenzene-d4	3855-82-1	617785	26.35			

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-04 Client ID: 347-UIW-13 10

Date Collected: 6/19/03 Date Received: 6/20/03
Date Analyzed: 6/25/03 Matrix: SOIL
File ID: VK062432.D Analytical Run ID: VK061303
Dilution: 1 Instrument ID: MSVOAK
Analytical Method: 8260 Associated Blank: VBK0624M2
Sample Wt/Wol: 5.5 Units: g Soil Extract Vol: 10000
Soil Aliquot Vol: 100 % Moisture: 3

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 66	U	470	66	ug/Kg
Chloromethane	74-87-3	< 48	U	470	48	ug/Kg
Vinyl chloride	75-01-4	< 74	U	470	74	ug/Kg
Bromomethane	74-83-9	< 36	U	470	36	ug/Kg
Chloroethane	75-00-3	< 230	U	470	230	ug/Kg
Trichlorofluoromethane	75-69-4	< 68	U	470	68	ug/Kg
tert-Butyl Alcohol	75-65-0	< 380	U	2400	380	ug/Kg
1,1-Dichloroethene	75-35-4	< 65	U	470	65	ug/Kg
Acrolein	107-02-8	< 460	U	2400	460	ug/Kg
Acrylonitrile	107-13-1	< 330	U	2400	330	ug/Kg
Acetone	67-64-1	< 330	U	470	330	ug/Kg
Carbon disulfide	75-15-0	< 68	U	470	68	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 98	U	470	98	ug/Kg
Methylene Chloride	75-09-2	< 170	U	470	170	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 76	U	470	76	ug/Kg
Vinyl Acetate	108-05-4	< 250	U	2400	250	ug/Kg
1,1-Dichloroethane	75-34-3	< 62	U	470	62	ug/Kg
2-Butanone	78-93-3	< 220	U	470	220	ug/Kg
Carbon Tetrachloride	56-23-5	< 44	U	470	44	ug/Kg
2,2-Dichloropropane	594-20-7	< 59	U	470	59	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 58	U	470	58	ug/Kg
Bromochloromethane	74-97-5	< 230	U	470	230	ug/Kg
Chloroform	67-66-3	< 58	U	470	58	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 71	U	470	71	ug/Kg
1,1-Dichloropropene	563-43-2	< 280	U	470	280	ug/Kg
Benzene	71-43-2	< 66	U	470	66	ug/Kg
1,2-Dichloroethane	107-06-2	< 53	U	470	53	ug/Kg
Trichloroethene	79-01-6	< 67	U	470	67	ug/Kg
1,2-Dichloropropane	78-87-5	< 68	U	470	68	ug/Kg
Dibromomethane	74-95-3	< 57	U	470	57	ug/Kg
Bromodichloromethane	75-27-4	< 69	U	470	69	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 76	U	470	76	ug/Kg
Toluene	108-88-3	< 67	U	470	67	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 62	U	470	62	ug/Kg

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-04 **Client ID:** 347-UIW-13-10

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062432.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Vol: 5.5 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 3

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 62	U	470	62	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 59	U	470	59	ug/Kg
1,3-Dichloropropane	142-28-9	< 53	U	470	53	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 200	U	470	200	ug/Kg
2-Hexanone	591-78-6	< 56	U	470	56	ug/Kg
Dibromochloromethane	124-48-1	< 62	U	470	62	ug/Kg
1,2-Dibromoethane	106-93-4	< 59	U	470	59	ug/Kg
Tetrachloroethene	127-18-4	< 66	U	470	66	ug/Kg
Chlorobenzene	108-90-7	< 74	U	470	74	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 60	U	470	60	ug/Kg
Ethyl Benzene	100-41-4	< 71	U	470	71	ug/Kg
m&p-Xylenes	136777-61-2	< 140	U	940	140	ug/Kg
o-Xylene	95-47-6	< 68	U	470	68	ug/Kg
Styrene	100-42-5	< 87	U	470	87	ug/Kg
Bromoform	75-25-2	< 46	U	470	46	ug/Kg
Isopropylbenzene	98-82-8	< 70	U	470	70	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 66	U	470	66	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 97	U	470	97	ug/Kg
Bromobenzene	108-86-1	< 57	U	470	57	ug/Kg
n-propylbenzene	103-61-5	< 75	U	470	75	ug/Kg
2-Chlorotoluene	95-49-8	< 79	U	470	79	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 91	U	470	91	ug/Kg
4-Chlorotoluene	106-43-4	< 96	U	470	96	ug/Kg
tert-Butylbenzene	98-06-6	< 88	U	470	88	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 78	U	470	78	ug/Kg
Sec-butylbenzene	135-98-8	< 91	U	470	91	ug/Kg
p-Isopropyltoluene	99-87-6	< 100	U	470	100	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 69	U	470	69	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 87	U	470	87	ug/Kg
n-Butylbenzene	104-51-8	< 120	U	470	120	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 83	U	470	83	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 86	U	470	86	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 120	U	470	120	ug/Kg
Hexachlorobutadiene	87-68-3	< 88	U	470	88	ug/Kg
Naphthalene	91-20-3	< 85	U	470	85	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-04 **Client ID:** 347-UIW-13 10

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062432.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Wol: 5.5 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 3

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 99	U	470	99	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	51.24	102 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	46	92 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	44.34	89 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	43.85	88 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	388718	4.49			
1,4-Difluorobenzene	540-36-3	696092	5.13			
Chlorobenzene-d5	3114-55-4	635113	7.56			
1,4-Dichlorobenzene-d4	3855-82-1	307904	8.95			

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-05 **Client ID:** 347-UIW-14 18

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062435.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Vol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 2

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
Dichlorodifluoromethane	75-71-8	< 66	U	470	66	ug/Kg
Chloromethane	74-87-3	< 48	U	470	48	ug/Kg
Vinyl chloride	75-01-4	< 74	U	470	74	ug/Kg
Bromomethane	74-83-9	< 36	U	470	36	ug/Kg
Chloroethane	75-00-3	< 230	U	470	230	ug/Kg
Trichlorofluoromethane	75-69-4	< 69	U	470	69	ug/Kg
tert-Butyl Alcohol	75-65-0	< 380	U	2400	380	ug/Kg
1,1-Dichloroethene	75-35-4	< 65	U	470	65	ug/Kg
Acrolein	107-02-8	< 460	U	2400	460	ug/Kg
Acrylonitrile	107-13-1	< 330	U	2400	330	ug/Kg
Acetone	67-64-1	< 330	U	470	330	ug/Kg
Carbon disulfide	75-15-0	< 68	U	470	68	ug/Kg
Methyl tert-butyl Ether	1634-04-4	< 99	U	470	99	ug/Kg
Methylene Chloride	75-09-2	< 170	U	470	170	ug/Kg
trans-1,2-Dichloroethene	156-60-5	< 76	U	470	76	ug/Kg
Vinyl Acetate	108-05-4	< 250	U	2400	250	ug/Kg
1,1-Dichloroethane	75-34-3	< 62	U	470	62	ug/Kg
2-Butanone	78-93-3	< 220	U	470	220	ug/Kg
Carbon Tetrachloride	56-23-5	< 44	U	470	44	ug/Kg
2,2-Dichloropropane	594-20-7	< 59	U	470	59	ug/Kg
cis-1,2-Dichloroethene	156-59-2	< 58	U	470	58	ug/Kg
Bromochloromethane	74-97-5	< 230	U	470	230	ug/Kg
Chloroform	67-66-3	< 58	U	470	58	ug/Kg
1,1,1-Trichloroethane	71-55-6	< 71	U	470	71	ug/Kg
1,1-Dichloropropene	563-43-2	< 280	U	470	280	ug/Kg
Benzene	71-43-2	< 66	U	470	66	ug/Kg
1,2-Dichloroethane	107-06-2	< 53	U	470	53	ug/Kg
Trichloroethene	79-01-6	< 68	U	470	68	ug/Kg
1,2-Dichloropropane	78-87-5	< 69	U	470	69	ug/Kg
Dibromomethane	74-95-3	< 57	U	470	57	ug/Kg
Bromodichloromethane	75-27-4	< 69	U	470	69	ug/Kg
4-Methyl-2-Pentanone	108-10-1	< 76	U	470	76	ug/Kg
Toluene	108-88-3	< 67	U	470	67	ug/Kg
t-1,3-Dichloropropene	10061-02-6	< 62	U	470	62	ug/Kg

Chemtech Consulting Group

Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-05 **Client ID:** 347-UIW-14-18

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062435.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Vol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 2

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
cis-1,3-Dichloropropene	10061-01-5	< 63	U	470	63	ug/Kg
1,1,2-Trichloroethane	79-00-5	< 59	U	470	59	ug/Kg
1,3-Dichloropropane	142-28-9	< 53	U	470	53	ug/Kg
2-Chloroethyl vinyl ether	110-75-8	< 200	U	470	200	ug/Kg
2-Hexanone	591-78-6	< 56	U	470	56	ug/Kg
Dibromochloromethane	124-48-1	< 62	U	470	62	ug/Kg
1,2-Dibromoethane	106-93-4	< 59	U	470	59	ug/Kg
Tetrachloroethene	127-18-4	< 66	U	470	66	ug/Kg
Chlorobenzene	108-90-7	< 74	U	470	74	ug/Kg
1,1,1,2-Tetrachloroethane	630-20-6	< 60	U	470	60	ug/Kg
Ethyl Benzene	100-41-4	< 71	U	470	71	ug/Kg
m&p-Xylenes	136777-61-2	< 140	U	940	140	ug/Kg
o-Xylene	95-47-6	< 68	U	470	68	ug/Kg
Styrene	100-42-5	< 87	U	470	87	ug/Kg
Bromoform	75-25-2	< 46	U	470	46	ug/Kg
Isopropylbenzene	98-82-8	< 71	U	470	71	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	< 66	U	470	66	ug/Kg
1,2,3-Trichloropropane	96-18-4	< 97	U	470	97	ug/Kg
Bromobenzene	108-86-1	< 57	U	470	57	ug/Kg
n-propylbenzene	103-61-5	< 75	U	470	75	ug/Kg
2-Chlorotoluene	95-49-8	< 80	U	470	80	ug/Kg
1,3,5-Trimethylbenzene	108-67-8	< 91	U	470	91	ug/Kg
4-Chlorotoluene	106-43-4	< 96	U	470	96	ug/Kg
tert-Butylbenzene	98-06-6	< 88	U	470	88	ug/Kg
1,2,4-Trimethylbenzene	95-63-6	< 78	U	470	78	ug/Kg
Sec-butylbenzene	135-98-8	< 91	U	470	91	ug/Kg
p-Isopropyltoluene	99-87-6	< 100	U	470	100	ug/Kg
1,3-Dichlorobenzene	541-73-1	< 70	U	470	70	ug/Kg
1,4-Dichlorobenzene	106-46-7	< 88	U	470	88	ug/Kg
n-Butylbenzene	104-51-8	< 120	U	470	120	ug/Kg
1,2-Dichlorobenzene	95-50-1	< 83	U	470	83	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	< 86	U	470	86	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	< 120	U	470	120	ug/Kg
Hexachlorobutadiene	87-68-3	< 88	U	470	88	ug/Kg
Naphthalene	91-20-3	< 85	U	470	85	ug/Kg

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Volatiles

SDG No.: R2911

Client: Impact Environmental

Sample ID: R2911-05 **Client ID:** 347-UIW-14 18

Date Collected: 6/19/03 **Date Received:** 6/20/03
Date Analyzed: 6/25/03 **Matrix:** SOIL
File ID: VK062435.D **Analytical Run ID:** VK061303
Dilution: 1 **Instrument ID:** MSVOAK
Analytical Method: 8260 **Associated Blank:** VBK0624M2
Sample Wt/Wol: 5.4 **Units:** g **Soil Extract Vol:** 10000
Soil Aliquot Vol: 100 **% Moisture:** 2

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
1,2,3-Trichlorobenzene	87-61-6	< 99	U	470	99	ug/Kg
SURROGATES						
1,2-Dichloroethane-d4	17060-07-0	49.6	99 %	43 - 177		SPK: 50
Dibromofluoromethane	1868-53-7	46.91	94 %	70 - 130		SPK: 50
Toluene-d8	2037-26-5	46	92 %	65 - 159		SPK: 50
4-Bromofluorobenzene	460-00-4	46.01	92 %	58 - 154		SPK: 50
INTERNAL STANDARDS						
Pentafluorobenzene	363-72-4	395781	4.49			
1,4-Difluorobenzene	540-36-3	689217	5.13			
Chlorobenzene-d5	3114-55-4	635736	7.55			
1,4-Dichlorobenzene-d4	3855-82-1	316554	8.96			