



**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

## Analytical Report Cover Page

### *Rochester Institute of Technology*

For Lab Project # 11-0335

Issued February 3, 2011

This report contains a total of 4 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

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The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

**"<" = analyzed for but not detected at or above the reporting limit.**

**"E" = Result has been estimated, calibration limit exceeded.**

**"Z" = See case narrative.**

**"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.**

**"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.**

**"B" = Method blank contained trace levels of analyte. Refer to included method blank report.**



**Volatile Analysis Report for Soils/Solids/Sludges**

**Client:** Rochester Institute of Technology

<b>Client Job Site:</b>	Crumb Rubber Filter #11413	<b>Lab Project Number:</b>	11-0335
<b>Client Job Number:</b>	N/A	<b>Lab Sample Number:</b>	1718
<b>Field Location:</b>	<30 Mesh Crumb Rubber	<b>Date Sampled:</b>	01/21/2011
<b>Field ID Number:</b>	N/A	<b>Date Received:</b>	01/21/2011
<b>Sample Type:</b>	Solid	<b>Date Analyzed:</b>	01/26/2011 01/27/2011

Halocarbons	Results in ug / Kg
Bromodichloromethane	< 7.87
Bromomethane	< 7.87
Bromoform	< 19.7
Carbon Tetrachloride	< 7.87
Chloroethane	< 7.87
Chloromethane	< 7.87
2-Chloroethyl vinyl Ether	< 39.4
Chloroform	< 7.87
Dibromochloromethane	< 7.87
1,1-Dichloroethane	< 7.87
1,2-Dichloroethane	< 7.87
1,1-Dichloroethene	< 7.87
cis-1,2-Dichloroethene	< 7.87
trans-1,2-Dichloroethene	< 7.87
1,2-Dichloropropane	< 7.87
cis-1,3-Dichloropropene	< 7.87
trans-1,3-Dichloropropene	< 7.87
Methylene chloride	< 19.7
1,1,2,2-Tetrachloroethane	< 7.87
Tetrachloroethene	187
1,1,1-Trichloroethane	< 7.87
1,1,2-Trichloroethane	< 7.87
Trichloroethene	22.1
Trichlorofluoromethane	< 7.87
Vinyl chloride	< 7.87

Aromatics	Results in ug / Kg
Benzene	< 7.87
Chlorobenzene	< 7.87
Ethylbenzene	27.6
Toluene	45.4
m,p-Xylene	750
o-Xylene	34.2
Styrene	28.4
1,2-Dichlorobenzene	< 7.87
1,3-Dichlorobenzene	< 7.87
1,4-Dichlorobenzene	< 7.87

Ketones	Results in ug / Kg
Acetone	363
2-Butanone	< 39.4
2-Hexanone	< 19.7
4-Methyl-2-pentanone	4,260

Miscellaneous	Results in ug / Kg
Carbon disulfide	76.6
Vinyl acetate	< 19.7

ELAP Number 10958

Method: EPA 8260B

Data File: V82063.D  
& V82100.D

Comments: ug / Kg = microgram per Kilogram

Surrogate and internal standard outliers indicate probable matrix interference

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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**Volatile Analysis Report for Soils/Solids/Sludges**

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<b>Field ID Number:</b>	N/A	<b>Date Received:</b>	01/21/2011
<b>Sample Type:</b>	Solid	<b>Date Analyzed:</b>	01/27/2011

<b>Tentatively Identified Compounds</b>	<b>CAS Number</b>	<b>Retention Time</b>	<b>Results in ug / Kg</b>	<b>Percent Fit</b>
n-methylfuran	N/A	3.80	22.9	N/A
3-methylhexane	589-34-4	4.67	23.7	94
n-methyl-2-hexanone	N/A	8.37	208	N/A
Unknown ketone	N/A	9.21	417	N/A
Unknown alkane	N/A	9.70	130	N/A
Unknown	N/A	10.01	117	N/A
Unknown alkane	N/A	12.12	249	N/A
Unknown heterocyclic compound	N/A	13.56	161	N/A

ELAP Number 10958

Method: EPA 8260B

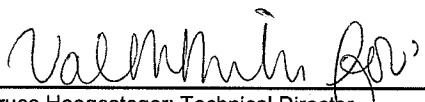
Data File: V82063.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Surrogate and internal standard outliers indicate probable matrix interference

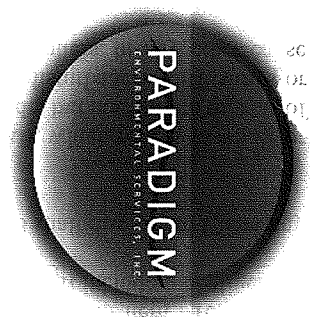
Signature:



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# CHAIN OF CUSTODY



**PARADIGM**  
ENVIRONMENTAL SERVICES

REPORT TO: \_\_\_\_\_ INVOICE TO: \_\_\_\_\_

PROJECT NAME/SITE NAME: **Crumb Rubber Filter #11413**

COMPANY: **Rochester Institute of Technology** COMPANY: **Same** LAB PROJECT #: **11-0335** CLIENT PROJECT #: \_\_\_\_\_

ADDRESS: **1 Lomb Memorial Drive, Bldg 9** ADDRESS: \_\_\_\_\_

CITY: **Rochester, NY** STATE: **NY** ZIP: **14623** STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: **716-243-1212** FAX: \_\_\_\_\_ PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

ATTN: **[Redacted]** ATTN: \_\_\_\_\_

COMMENTS: **Bettina Burleigh** ~~Lab~~ **716-69445@rit.edu** REQUESTED ANALYSIS

Quotation #  1  2  3  5  OTHER

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/21/2011				< 30 Mesh Crumb Rubber	Solid	1 X	EPA 8260TL Volatile Organic + Library Search	1718
2								
3								
4								
5								
6								
7								
8								
9								
10								

\*\*LAB USE ONLY BELOW THIS LINE\*\*

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter: **NELAC Compliance**

Container Type:  Y  N

Preservation: **N/A**  Y  N

Holding Time:  Y  N

Temperature: **20°C**  Y  N

Sampled By: **Bettina Burleigh** Date/Time: **1/21/2011 8:20 AM** Total Cost: **\$140.00**

Relinquished By: **[Signature]** Date/Time: **1/21/2011 8:20 AM**

Received By: **[Signature]** Date/Time: **1/21/11 8:20 AM** P.I.F.

Received @ Lab By: **Christa Honck** Date/Time: **1/21/11 11:00**