CLOSURE CERTIFICATION
and
REPORT

for

INDUSTRIAL SERVICE CORPORATION
1633 Marsh Avenue
Blue Summit, Missouri

Prepared by:

Deffenbaugh Industries, Inc.
18181 West 53rd Street
Shawnee Kansas, 66217

April 20, 2001

Revised July 20, 2001

Industrial Service Corporation

P.O. Box 3220
Shawnee, Kansas 66203
(913) 631-3300

April 17, 2001

Ms. Darleen Groner, P.E.
Hazardous Waste Program
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102-0176

RE: Owner's Certification and Report

Dear Ms. Groner,

In accordance with 40 CFR 265.115, Industrial Service Corporation, Inc. hereby submits this closure certification and report. To keep this document manageable in size, we have included the full text of newly submitted information and made references to information already submitted to the Missouri Department of Natural Resources, Hazardous Waste Program.

The report is divided into six sections as follows:

Section A

This is the owner's stamped certification from Industrial Service Corporation.

Section B

This section has the cover page, index and certification page and the executive summary from the previously referenced Burns and McDonnell report.

Section C

A copy of the "Certification of recording of a notation on land use restrictions", including book and page numbers are in this section.

Section D

This section contains the "Certificates of Destruction" for the tanks, including tanks A, B and C discovered during the excavation and cap construction.

Section E

This section includes a few pictures from the demolition of the tanks. Additional photos can be located in the "Construction Quality Assurance Report, Cap and interim Corrective Measure" previously submitted by Burns and McDonnell. An additional binder of photographs were submitted in person to Thomas Judge, M.D.N.R.,H.W.P. during a visit to the site.

Section F

The analytical data and tables are compiled in this section.

If the Department is not able to locate the documents that were mentioned above, or needs additional information please contact me to discuss additional submissions. Thank you for your assistance and patience during the closure activities.

Sincerely,

Albert R. Slavik
Director of Security and Special Projects Group
Industrial Service Corporation

SECTION A

OWNERS CERTIFICATION

CLOSURE PLAN

The Closure Plan is comprised of the following approval letters and documents referenced therein:

- MDNR correspondence dated September 27, 1994 approving the Closure Plan with modifications.

The Closure Plan was modified with the following documents:

- MDNR final approval with modifications letter dated February 22, 2000.
- MDNR letter approving modifications dated June 22, 2000.
- MDNR letter approving modifications dated July 26, 2000.

CERTIFICATION OF CLOSURE

Industrial Service Corporation hereby certifies that the facility was dismantled, tanks were cleaned and destroyed, sludge was properly disposed, impacted soil was excavated and properly disposed, and remedial construction was completed in substantial compliance with the Closure Plan originally approved September 27, 1994 and subsequently modified as described above.

Prepared and Submitted By:

Adam Larky, P.E.
Project Manager

Randy Alewine, P.E.
Deffenbaugh Industries

STATE OF MISSOURI
ADAM STEVEN LARKY
NUMBER
E-26656
REGISTERED PROFESSIONAL ENGINEER
7/19/01

REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
STEVEN
RANDY
ALEWINE
NUMBER
E-21090

SECTION B

CONSTRUCTION QUALITY ASSURANCE REPORT SUMMARY

CONSTRUCTION QUALITY ASSURANCE REPORT
FOR
CAP AND INTERIM CORRECTIVE MEASURE
INDUSTRIAL SERVICES CORPORATION
MARSH STREET SITE
BLUE SUMMIT, MISSOURI

INDUSTRIAL SERVICES CORPORATION

DECEMBER 2000

24387

Burns & McDonnell Engineering Company, Inc.
Engineers-Architects-Program Managers
Kansas City, Missouri

Construction Quality Assurance Report
For
Cap and Interim Corrective Measure
Industrial Services Corporation
Marsh Street Site
Blue Summit, Missouri

INDEX AND CERTIFICATION PAGE
REPORT INDEX

Part No.	Part Title	Number of Pages
	Index and Certification	1
	Executive Summary	1
1.0	Introduction	1
2.0	Project Overview	5
3.0	Product Recovery System	3
4.0	Soil Liner Components	4
5.0	Geomembrane	4
	Appendix A	56
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	Appendix C	58
	Appendix D	18
	Appendix E	15

CERTIFICATION

Burns & McDonnell Engineering Company, Inc. (BMcD), hereby certifies that the composite compacted clay and geomembrane cap system, the product recovery trench, riser pipe and oil water separator for Industrial Services Corporation, Inc., were constructed and installed in substantial compliance with the construction documents.

STATE OF MISSOURI
ADAM STEVEN LARKY
NUMBER E-28655
REGISTERED PROFESSIONAL ENGINEER

12/7/00

Prepared and Submitted By:

Adam Larky, P.E.
Project Manager
Burns & McDonnell Engineering Company, Inc.

EXECUTIVE SUMMARY

This Construction Quality Assurance (CQA) Report provides documentation that the construction of the Industrial Services Corporation product recovery trench system and composite cap in Blue Summit, Missouri, was completed in substantial compliance with the following:

- Burns and McDonnell Engineering Co., Inc., 1999, Construction Quality Assurance Plan for Industrial Services Corporation, Blue Summit, Missouri, November 1999. (Revised, March 2000)

- Burns and McDonnell Engineering Co., Inc., 2000, Contract Drawings, Marsh Street Site, Deffenbaugh Industries, Inc., Industrial Services Corporation, Blue Summit, Missouri, March 2000.

The composite cap system constructed for the Industrial Services Corporation (ISC) site consists of a minimum thickness of 2 feet of compacted soil underlying a minimum 60-mil (0.06 inches) thick high density polyethylene (HDPE) geomembrane, and a geocomposite (geonet with an 10-ounce-per square yard heat bonded geotextile) underlying a 2-foot thick protective cover and vegetative layer. The geocomposite is single-sided, with the geotextile side up. The hydraulic conductivity of the compacted soil liner, as constructed and tested, is less than 1×10^{-7} cm/sec. The geomembrane is generally in direct and uniform contact with the compacted clay liner. The product recovery trench drains into a sump, and is then pumped up the riser pipe into an oil/water separator that discharges into the sanitary sewer.

Details of the construction and CQA documentation for construction of the various cover components are provided in Section 3.0 through 5.0 of this report. Field and laboratory documentation records are provided in the Appendices.

* * * * *

SECTION C

CERTIFICATION
OF
LAND USE RESTRICTION

CERTIFICATION OF RECORDING OF A NOTATION ON LAND USE RESTRICTIONS

The undersigned hereby certifies that a land use restriction notation was recorded in Book ___, Page ___ of the Jackson County, Missouri, Recorder of Deeds records. That notation pertains to a tract of land (henceforth referred to as the "Land") on parts of Lots 27, 28, 29, 30, and 31, Block 11, RESURVEY OF STARK ACRES, a subdivision in Jackson County, Missouri, also being part of the tract described by trustee deed recorded in Book I-1128, Page 1844, and Missouri Warranty Deeds recorded in Book I-642, Page 1310 and Book I-501, Page 246, of the Jackson County, Missouri Recorder of Deeds. The notation includes the following statement:

> The Land has been used to manage hazardous and non-hazardous waste and use of the Land is restricted under 10 Code of State Regulations 25-7.265 effective January 30, 1999. This restriction runs with the Land and binds all current owners and their heirs, successors, executors, and assigns. This notation and the aforementioned survey have been filed in the Office of the Recorder of Deeds for Jackson County, Missouri and with the Director of the Hazardous Waste Program for the Missouri Department of Natural Resources. Information concerning the type, location and quantity of hazardous waste remaining on the Land has been filed with the Jackson County, Missouri Zoning Department, the Director of the Hazardous Waste Program for the Missouri Department of Natural Resources, and the Regional Administrator for the United States Environmental Protection Agency, Region VII.

Subscribed and sworn before me, a Notary Public in and for Johnson County, Kansas, this 12 day of January, 2001.

My term expires 8/26, 2002

Cynthia A. Bellamey

Print Name: Cynthia G. Bellamey

Notary Public

My Commission Expires:

8/26/2002

QUALITY ANALYTICAL SERVICES, INC.

f/k/a Industrial Services Corporation

By: [signature]

Ronald D. Deffenbaugh, President

CYNTHIA G. BELLAMEY
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXP. 8/26/2002

COPY

2001I 0004387

JACKSON COUNTY DEPARTMENT OF RECORDS
308 WEST KANSAS
INDEPENDENCE, MO 64050

RECORDER OF DEEDS DOCUMENT IDENTIFICATION & CERTIFICATION SHEET

TYPE OF INSTRUMENT: PARTIAL PRINCIPALS IDENTIFIED FROM DOCUMENT FOR DOCUMENT TRACKING PURPOSES

MISC **PRUITT JERALD W** **NONE**

BRIEF PROPERTY DESCRIPTION: **PT LOTS 27-31 BLOCK 11 RESURVEY OF STARK ACRES**

NOTE: Document information on this certification sheet is furnished as a convenience only, and in the case of any discrepancy between same and the attached instrument, the attached instrument governs. The Recorder's official Grantor/Grantee indices are created from the information contained in the actual instrument attached hereto.

STATE OF MISSOURI)
SS.
COUNTY OF JACKSON)

I, the undersigned Recorder of Deeds for said County and State, do hereby certify that the following and annexed instrument of writing, which consists of 3 pages (this page inclusive), was filed for record in my office on the 24 day of January, 2001, at 11:04:41 and is truly recorded as the document number shown at the top and/or bottom of this page.

In witness whereof I have hereunto set my hand and official seal the day, month and year aforesaid.

RECORDER OF DEEDS — DEED OF — IND. — JACKSON CO. MO.

Fees:

MO HOUSING TRUST FUND	$3.00
HOMELESS FEE	$3.00
RECORDING FEE	$11.00
STATE USER FEE	$4.00

Mary H. Murphy
Director of Records
Jackson County, MO

A. Garmon
Recording Deputy

Recording Fee: $21.00
(Paid at time of Recording)

Return to:

MORRISON & HECKER
2600 GRAND AVENUE
KANSAS CITY, MO 64108-4606

Document Number / Book & Page:
2001I 0004387 (1 - 3)

PLEASE DO NOT REMOVE THIS PAGE FROM THE DOCUMENT

CERTIFICATION OF SURVEYOR

This is to certify that on November 8, 2000 I made a survey for Quality Analytical Services, Inc. of a tract of land located on parts of Lots 27, 28, 29, 30, and 31, Block 11, RESURVEY OF STARK ACRES, a subdivision in Jackson County, Missouri, also being part of the tract described by a trustee deed recorded in Book I-1128, Page 1844, and Missouri Warranty Deeds recorded in Book I-642, Page 1310 and Book I-501, Page 246, of the Jackson County, Missouri, Recorder of Deeds records. 82I 479842 74I 175240 75I 230624.

Due to the unavailability of up-to-date title information, easements and other special conditions affecting this property were not checked.

This survey of urban property was made in accordance with the current Missouri Minimum Standards for Property Boundary Surveys.

STATE OF MISSOURI
JERALD W. PRUITT
NUMBER
LS-2347
Dec. 14, 2000
LAND SURVEYOR

Jerald W. Pruitt
Professional Land Surveyor
PLS #2347

STATE OF Kansas)
) ss.
COUNTY OF Johnson)

On this 24th day of January, 2001, before me personally appeared Jerald W. Pruitt, to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Johnson County, Kansas the day and year last above written.

(SEAL)

JAMES M. LAMBETH
Notary Public - State of Kansas
My Appt. Expires 10-29-04

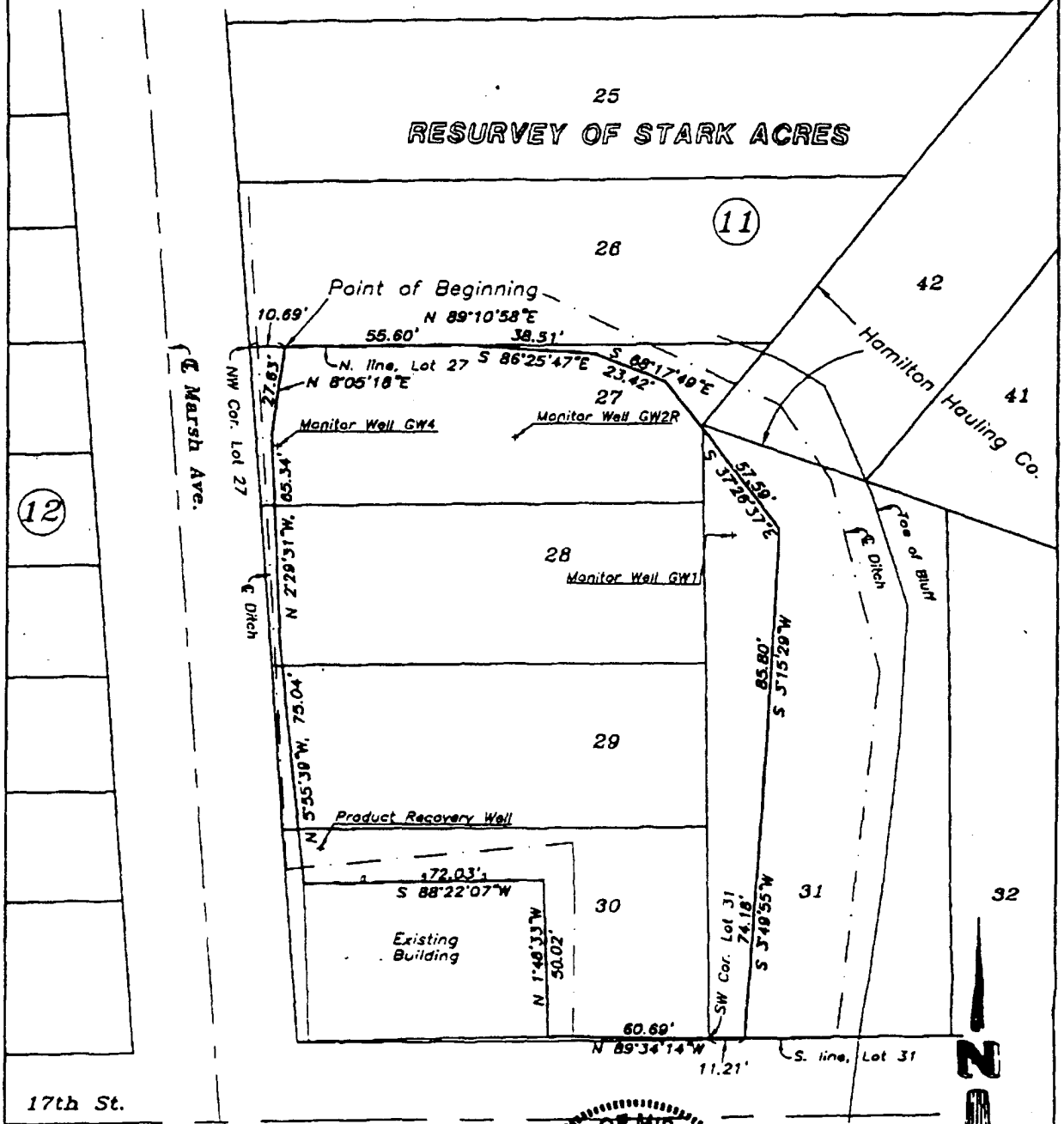
Name: James M. Lambeth
Notary Public in and for said State

My Commission Expires: 10-29-04

CAMPBELL, BARBER, LAMBETH AND ASSOCIATES, P.A.
Consulting Engineers and Land Surveyors
6223 Slater, P.O. Box 315
Shawnee Mission, Kansas 66201
Tele. (913)722-1220 Fax (913)722-1223

Industrial Services Corporation
1633 Marsh Avenue, Blue Summit, Missouri
Description Plat of Plastic Liner

Description: Parts of Lots 27, 28, 29, 30, and 31, Block 11, RESURVEY OF STARK ACRES, a subdivision in Jackson County, Missouri, being more particularly described as follows: Beginning at a point on the North line of said Lot 27, 10.69 feet East of the Northwest corner of said Lot 27; thence North 89 degrees, 10 minutes, 58 seconds East along said North line, 55.60 feet; thence South 86 degrees, 25 minutes, 47 seconds East, 38.51 feet; thence South 68 degrees, 17 minutes, 49 seconds East, 23.42 feet; thence South 37 degrees, 26 minutes, 37 seconds East, 57.59 feet; thence South 3 degrees, 15 minutes, 29 seconds West, 85.80 feet; thence South 3 degrees, 49 minutes, 55 seconds West, 74.18 feet to a point on the South line of said Lot 31 and 11.21 feet East of the Southwest corner of said Lot 31; thence North 89 degrees, 34 minutes, 14 seconds West, 60.69 feet; thence North 1 degree, 48 minutes, 33 seconds West, 50.02 feet; thence South 88 degrees, 22 minutes, 07 seconds West, 72.03 feet; thence North 5 degrees, 55 minutes, 39 seconds West, 75.04 feet; thence North 2 degrees, 29 minutes, 31 seconds West, 65.34 feet; thence North 8 degrees, 5 minutes, 18 seconds East, 27.63 feet to the point of beginning.



I hereby certify that to the best of my knowledge, the above plat correctly portrays the results of a survey of the above described property, that said survey was conducted under my supervision; and said survey meets the 'Missouri Minimum Standards For Property Boundary Surveys For An Urban Survey'.

SIGNED: Jerald W. Pruitt, PLS 2347

DATE: November 5, 2000

Revised 12/[illegible]/00, corrected distance in description.

lcsgrid Elev CompositeR.dwg
PSR
10/18/00
Job No. 070017
Scale 1" = 40'

2001I 0004388

JACKSON COUNTY DEPARTMENT OF RECORDS
308 WEST KANSAS
INDEPENDENCE, MO 64050

RECORDER OF DEEDS DOCUMENT IDENTIFICATION & CERTIFICATION SHEET

TYPE OF INSTRUMENT: PARTIAL PRINCIPALS IDENTIFIED FROM DOCUMENT FOR DOCUMENT TRACKING PURPOSES

REST RESTRICTIONS PT LOTS 27-31 BLOCK 11 RESURVEY OF STARK ACRES

BRIEF PROPERTY DESCRIPTION: PT LOTS 27-31 BLOCK 11 RESURVEY OF STARK ACRES

NOTE: Document information on this certification sheet is furnished as a convenience only, and in the case of any discrepancy between same and the attached instrument, the attached instrument governs. The Recorder's official Grantor/Grantee indices are created from the information contained in the actual instrument attached hereto.

STATE OF MISSOURI)
SS.
COUNTY OF JACKSON)

I, the undersigned Recorder of Deeds for said County and State, do hereby certify that the following and annexed instrument of writing, which consists of 4 pages (this page inclusive), was filed for record in my office on the 24 day of January, 2001, at 11:04:41 and is truly recorded as the document number shown at the top and/or bottom of this page.

In witness whereof I have hereunto set my hand and official seal the day, month and year aforesaid.

RECORDER OF DEEDS
DEED OF
IND.
JACKSON CO. MO.

Fees:

MO HOUSING TRUST FUND 001-2473	$3.00
HOMELESS 043-250-2195	$3.00
RECORDING FEE	$14.00
USER FEE	$4.00

Mary H. Murphy
Director of Records
Jackson County, MO

A. Garmon
Recording Deputy

Recording Fee: $24.00
(Paid at time of Recording)

Return to:

MORRISON & HECKER
2600 GRAND AVENUE
KANSAS CITY, MO 64108-4606

Document Number / Book & Page:
2001I 0004388 (1 - 4)

PLEASE DO NOT REMOVE THIS PAGE FROM THE DOCUMENT

NOTATION OF LAND USE RESTRICTION

KNOW ALL MEN BY THESE PRESENTS, that Quality Analytical Services, Inc., a Missouri corporation, the owner of the real property (hereinafter referred to as the "Land") located on parts of Lots 27, 28, 29, 30, and 31, Block 11, RESURVEY OF STARK ACRES, a subdivision in Jackson County, Missouri, and more particularly described in Exhibit A attached hereto and incorporated herein by reference, and in the survey filed of record in the Office of the Recorder of Deeds for Jackson County, Missouri in Book #, Page ___, hereby files this Notation of Land Use Restriction for the purpose of giving notice that the Land has been used to manage hazardous and non-hazardous waste and that use of the Land is restricted under 10 Code of State Regulations 25-7.265 effective January 30, 1999. This restriction runs with the Land and binds all current owners and their heirs, successors, executors and assigns. This notation and the aforementioned survey have been filed in the Office of the Recorder of Deeds for Jackson County, Missouri and with the Director of the Hazardous Waste Program for the Missouri Department of Natural Resources. Information concerning the type, location and quantity of hazardous waste remaining on the Land has been filed with the Jackson County, Missouri Zoning Department, the Director of the Hazardous Waste Program for the Missouri Department of Natural Resources, and the Regional Administrator for the United States Environmental Protection Agency, Region VII. *2001I0004387

IN WITNESS WHEREOF, Ronald D. Deffenbaugh has executed this notation this 12 day of January, ~~2000~~. 2001

QUALITY ANALYTICAL SERVICES, INC.
f/k/a Industrial Services Corporation

By: Ronald D. Deffenbaugh, President

EXHIBIT A

Parts of Lots 27, 28, 29, 30, and 31, Block 11, RESURVEY OF STARK ACRES, a subdivision in Jackson County, Missouri, being more particularly described as follows: Beginning at a point on the North line of said Lot 27, 10.69 feet East of the Northwest corner of said Lot 27; thence North 89 degrees, 10 minutes, 58 seconds East along said North line, 55.60 feet; thence South 86 degrees, 25 minutes, 47 seconds East, 38.51 feet; thence South 68 degrees, 17 minutes, 49 seconds East, 23.42 feet; thence South 37 degrees, 26 minutes, 37 seconds East, 57.59 feet; thence South 3 degrees, 15 minutes, 29 seconds West, 85.80 feet; thence South 3 degrees, 49 minutes, 55 seconds West, 74.18 feet to a point on the South line of said Lot 31 and 11.21 feet East of the Southwest corner of said Lot 31; thence North 89 degrees, 34 minutes, 14 seconds West, 60.69 feet; thence North 1 degree, 48 minutes, 33 seconds West, 50.02 feet; thence South 88 degrees, 22 minutes, 7 seconds West, 72.03 feet; thence North 5 degrees, 55 minutes, 39 seconds West, 75.04 feet; thence North 2 degrees, 29 minutes, 31 seconds West, 65.34 feet; thence North 8 degrees, 5 minutes, 18 seconds East, 27.63 feet to the point of beginning.

STATE OF KANSAS)
) SS.
COUNTY OF JOHNSON)

On this 12th day of January, 2001, before me, the undersigned, a Notary Public, appeared Ronald D. Deffenbaugh, to me personally known, who being by me duly sworn, did say that he is the President of Quality Analytical Services, Inc., f/k/a Industrial Service Corporation, a Missouri corporation, that said instrument was signed on behalf of said corporation, and Ronald D. Deffenbaugh acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my and affixed my official seal at my office in Shawnee, Kansas, the day and year last above written.

Cynthia G. Bellamey
Notary Public in and for said County and State

My Commission Expires:

8/26/2002

CYNTHIA G. BELLAMEY
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXP. 8/26/2002

DEFFENBAUGH INDUSTRIES, INC.
POST OFFICE BOX 3220
SHAWNEE, KANSAS 66203
913-631-3300

January 12, 2001

Mr. Mark Trosen
Manager of Planning and Zoning
Jackson County
103 North Main
Independence, Missouri 64050-2861

Ms. Cindy Kemper
Director
Hazardous Waste Management Program
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102-0176

Mr. Dennis Grams
Regional Administrator
Region 7
United States Environmental Protection Agency
901 North 5th Street
Kansas City, Kansas 66101

Re: Notice of Filing Land Use Restriction on 1633 Marsh Avenue, Blue Summit, Missouri

Dear Mr. Trosen, Ms. Kemper and Mr. Grams:

This letter serves as formal notification that a restrictive notation has been filed by Quality Analytical Services, Inc. (formerly known as Industrial Services Corporation), an affiliate of Deffenbaugh Industries, Inc., concerning the remediation of certain hazardous wastes at 1633 Marsh Avenue, Blue Summit, Missouri. The interim corrective measure has been completed and a notation has been filed with the Jackson County Recorder of Deeds in accordance with 10 CSR 25-7.265. The regulations require that information concerning the type, location and quantity of hazardous waste remaining on the property be filed with your offices.

This letter serves as formal notification of the type, quantity and location of the hazardous waste that remains on-site. Below is a description of the type, quantity and location of hazardous waste.

TYPES OF HAZARDOUS WASTE IN SOILS

VOLATILE ORGANIC COMPOUNDS
Acetone
Benzene
2-Butanone
n-Butylbenzene
sec-Butylbenzene
Carbon disulfide
cis-1,2-Dichloroethene
Chloroethane
1,1-Dichloroethane
Ethylbenzene
Isopropylbenzene
p-Isopropyltoluene
Methylene chloride
Methyl chloride (Chloromethane)
n-Propylbenzene
Tetrachloroethene
1,1,2,2-Tetrachloroethane
Toluene
1,1,1-Trichloroethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Trichloroethene
Vinyl chloride
Xylene (Total)

SEMI-VOLATILE ORGANIC COMPOUNDS
Acenaphthene
Anthracene
Benzo(a)anthracene
Bis(2-ethylhexyl)phthalate
Chrysene
Dibenzofuran
Diethylphalate
Fluoranthene
Fluorene
2-Methylnaphthalene
Naphthalene
Butyl benzyl phthalate
N-Nitrosodiphenylamine
Phenanthrene
Pyrene

HERBICIDES
2,4-D
2,4,5-TP (Silvex)

PESTICIDES AND PCBS
beta-BHC
gamma-BHC
Heptachlor
PCB-1260

DIOXINS AND FURANS

INORGANICS
Sulfide,Total
Hexavalent chromium

METALS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Silver
Thallium
Tin
Vanadium
Zinc

LOCATION OF HAZARDOUS WASTE IN SOILS

Parts of Lots 27, 28, 29, 30, and 31, Block 11, RESURVEY OF STARK ACRES, a subdivision in Jackson County, Missouri, being more particularly described as follows: Beginning at a point on the North line of said Lot 27, 10.69 feet East of the Northwest corner of said Lot 27; thence North 89 degrees, 10 minutes, 58 seconds East along said North line, 55.60 feet; thence South 86 degrees, 25 minutes, 47 seconds East, 38.51 feet; thence South 68 degrees, 17 minutes, 49 seconds East, 23.42 feet; thence South 37 degrees, 26 minutes, 37 seconds East, 57.59 feet; thence South 3 degrees, 15 minutes, 29 seconds West, 85.80 feet; thence South 3 degrees, 49 minutes, 55 seconds West, 74.18 feet to a point on the South line of said Lot 31 and 11.21 feet East of the Southwest corner of said Lot 31; thence North 89 degrees, 34 minutes, 14 seconds West, 60.69 feet; thence North 1 degree, 48 minutes, 33 seconds West, 50.02 feet; thence South 88 degrees, 22 minutes, 7 seconds West, 72.03 feet; thence North 5 degrees, 55 minutes, 39 seconds West, 75.04 feet; thence North 2 degrees, 29 minutes, 31 seconds West, 65.34 feet; thence North 8 degrees, 5 minutes, 18 seconds East, 27.63 feet to the point of beginning.

QUANTITY OF SOIL ON SITE THAT MAY CONTAIN HAZARDOUS WASTE

Approximately 10,000 cubic yards.

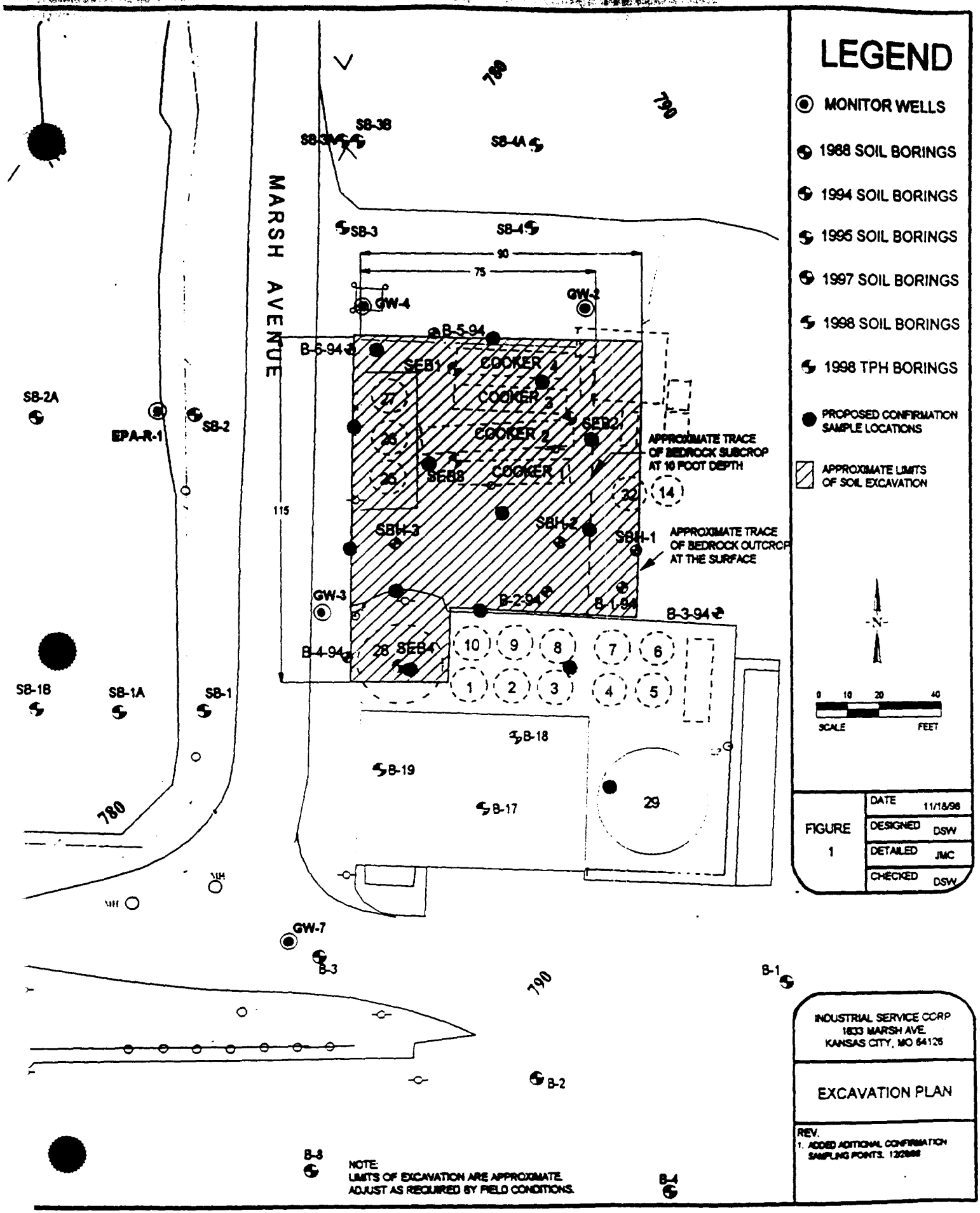
Please direct any questions concerning this matter to the site's project manager, Mr. Al Slavik. Mr. Slavik can be reached at 913-631-3300 or via fax at 913-631-3996.

Sincerely,

Ronald D. Deffenbaugh
President

SECTION D

CERTIFICATES OF DESTRUCTION


LEGEND
MONITOR WELLS
1988 SOIL BORINGS
1994 SOIL BORINGS
1995 SOIL BORINGS
1997 SOIL BORINGS
1998 SOIL BORINGS
1998 TPH BORINGS
PROPOSED CONFIRMATION SAMPLE LOCATIONS
APPROXIMATE LIMITS OF SOIL EXCAVATION
SCALE
FEET
MARSH AVENUE
COOKER 4
COOKER 3
COOKER 2
COOKER 1
APPROXIMATE TRACE OF BEDROCK SUBCROP AT 10 FOOT DEPTH
APPROXIMATE TRACE OF BEDROCK OUTCROP AT THE SURFACE
FIGURE 1
DATE 11/18/98
DESIGNED DSW
DETAILED JMC
CHECKED DSW
INDUSTRIAL SERVICE CORP
1833 MARSH AVE.
KANSAS CITY, MO 64126
EXCAVATION PLAN
REV.
1. ADDED ADITIONAL CONFIRMATION SAMPLING POINTS. 12/2/98
NOTE:
LIMITS OF EXCAVATION ARE APPROXIMATE.
ADJUST AS REQUIRED BY FIELD CONDITIONS.

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Cooker outer skins gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 11, 1998.

Robert W Fitz
Signature of Responsible Person

Aug 14, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 14th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Cooker #1 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 3rd, 1998.

Signature of Responsible Person

Aug 7, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 7th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Cooper #2 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 3rd, 1998.

Signature of Responsible Person

Aug 7, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 7th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

3

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Cooker #3 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on AUG 4TH, 1998.

Robert W Fib
Signature of Responsible Person

AUG 7 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 7th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Cavers #4 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on AUG 10, 1998.

Signature of Responsible Person

AUG 14, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 14th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that TANK #1 - 17,800 GAL gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 21, 1998.

Robert W. Fab Sit Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that TANK #2-16,350 GAL gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on APRIL 20, 1998.

Robert W Fitz Sr Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #3 - 16,350 Gal gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 17, 1998.

Robert W File Site Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #4 - 17,800 Gal gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 17, 1998.

Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #'s - 22,650 Gal gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 20, 1998.

Robert W. Fife Site Mgr.
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #6-28650 Gal gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Sept 21, 1998.

Robert W Fab Site Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #27 & Tank # 7 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on OCT 7, 1998.

Signature of Responsible Person

OCT 9, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 9th day of October, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #8-16350 6 1/6 gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 17, 1998

Robert W Fils Site Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #9 - 16,750 GAL gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on June 21, 1998

Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #10 - 17800 GAL gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 20, 1998.

Robert W. Fite Site Mgr.
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #14-10,000 Gal gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 16, 1998.

Robert W. [illegible] Mgr.
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #26 & Cut apart From Tank #28 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 20, 1998.

Robert W Fib
Signature of Responsible Person

Aug 21, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 21st day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that TANK #25 gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on AUG 21, 1998.

Signature of Responsible Person

AUG 24, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 24th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that TANK #28 CUT OFFS gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on AUG 20, 1998.

Signature of Responsible Person

AUG 21, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 21st day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Tank #32 - 8750 Gal gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 16, 1998.

Robert W Fib Site Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that ZEICH CAVE TANKS gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on SEPT 9, 1998.

Signature of Responsible Person

SEPT 11, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of September, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Condensate Tank 11,200 gallons gallon ~~underground~~ and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on April 16, 1998.

Robert W. Fale Site Mgr
Signature of Responsible Person

05-11-98
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 11th day of May, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Beams From Gunnison Rock/Bldg Siding gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 14, 1998.

[signature]
Signature of Responsible Person

Aug 14, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 14th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

TOTAL ENVIRONMENTAL SERVICES & TECHNOLOGIES
(T.E.S.T.)
18181 West 53rd Street - Shawnee, KS 66217

CERTIFICATE OF DESTRUCTION

Industrial Service Corporation:

Total Environmental Services & Technologies does hereby certify that Mach Scrap gallon underground and/or aboveground storage tanks were removed from 1633 South Marsh, Kansas City, Missouri. Were made safe and cut up accomplishing the destruction of said tanks, in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on Aug 26, 1998.

Signature of Responsible Person

Aug 28, 1998
Date

TEST
Responsible Agency

Subscribed and sworn to before me on this 28th day of August, 1998.

Merrie L. Ammerman
Notary Public

MERRIE L. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 5-23-99

Deffenbaugh Industries, Inc.
18181 W. 53rd, Shawnee, Kansas 66217

CERTIFICATE OF DESTRUCTION

INDUSTRIAL SERVICE CORPORATION

I, Albert R. Slavik, the responsible person signed below, do hereby certify that TANK 29, an above ground storage tank of approximately 60,000-gallon capacity, was removed from 1633 South Marsh, Kansas City, Missouri. The tank was made safe and cut up accomplishing the destruction of the tank in accordance with all rules and regulations, rendering it unusable for any purpose.

I hereby certify this was accomplished on 03-02-1999.

Signature of responsible party

04-16-2001
Date

Industrial Service Corporation
Responsible Agency

Subscribed and sworn to me on this 16th day of April, 2001

Notary Public

BOBBIE M. JERDE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-22-03

Deffenbaugh Industries, Inc.
18181 W. 53rd, Shawnee, Kansas 66217

CERTIFICATE OF DESTRUCTION

INDUSTRIAL SERVICE CORPORATION

I, Albert R. Slavik, the responsible person signed below, does hereby certify that Tank A, a below ground storage tank discovered during excavation, of unknown capacity, was removed from 1633 South Marsh, Kansas City, Missouri. The tank was made safe and cut up accomplishing the destruction of the tank in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on 05-23-2000.

Signature of responsible person

04-16-01
Date

Industrial Service Corporation
Responsible Agency

Subscribed and sworn to before me on this 16th day of April, 2001

Notary Public

BOBBIE M. JERDE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-17-03

Deffenbaugh Industries, Inc.
18181 W. 53rd, Shawnee, Kansas 66217

CERTIFICATE OF DESTRUCTION

INDUSTRIAL SERVICE CORPORATION

I, Albert R. Slavik, the responsible person signed below, does hereby certify that Tank B, a below ground storage tank discovered during excavation, of unknown capacity, was removed from 1633 South Marsh, Kansas City, Missouri. The tank was made safe and cut up accomplishing the destruction of the tank in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on 06-06-2000.

Signature of responsible person

04-16-2001
Date

Industrial Service Corporation
Responsible Agency

Subscribed and sworn to before me on this 16th day of April, 2001

Notary Public

BOBBIE M. JERDE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-17-03

Deffenbaugh Industries, Inc.
18181 W. 53rd, Shawnee, Kansas 66217

CERTIFICATE OF DESTRUCTION

INDUSTRIAL SERVICE CORPORATION

I, Albert R. Slavik, the responsible person signed below, does hereby certify that Tank C, a below ground storage tank discovered during excavation, of unknown capacity, was removed from 1633 South Marsh, Kansas City, Missouri. The tank was made safe and cut up accomplishing the destruction of the tank in accordance with all rules and regulations, rendering them unusable for any purpose.

I hereby certify this was accomplished on 06-08-2000.

Signature of responsible person

04-16-2001
Date

Industrial Service Corporation
Responsible Agency

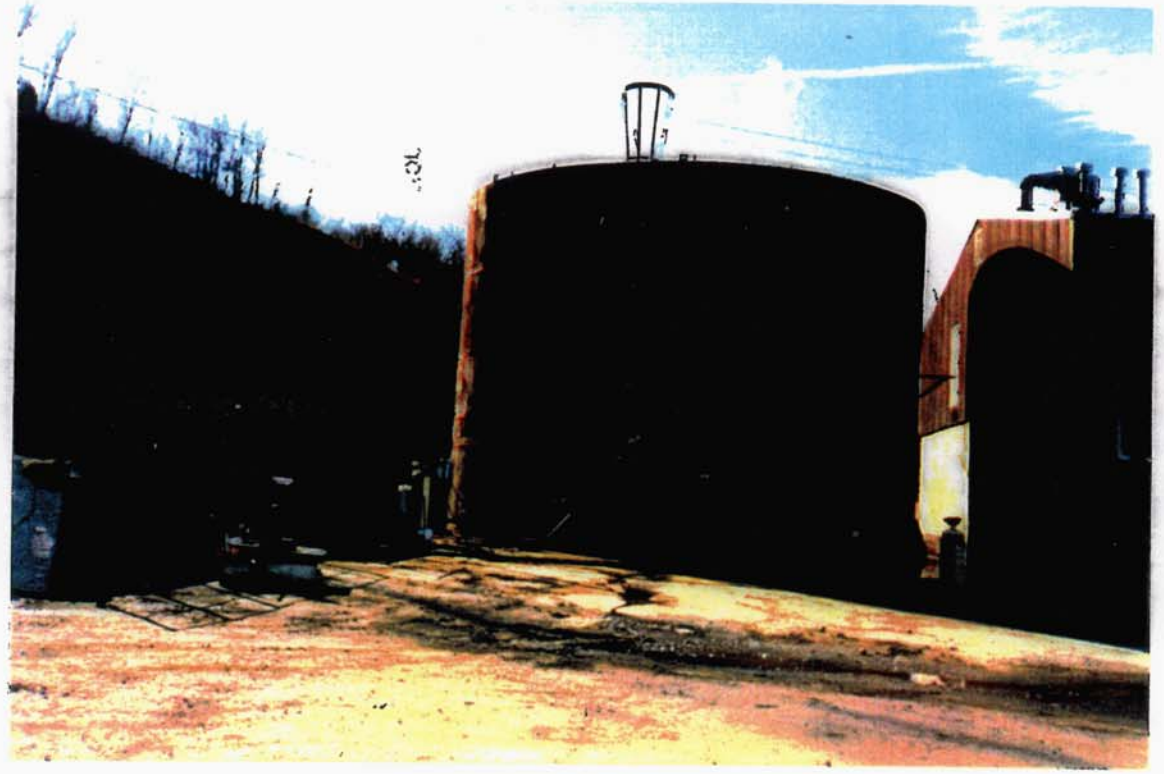
Subscribed and sworn to before me on this 11th day of April, 2001

Notary Public

BOBBIE M. JERDE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-17-03

SECTION E

PHOTOGRAPHS



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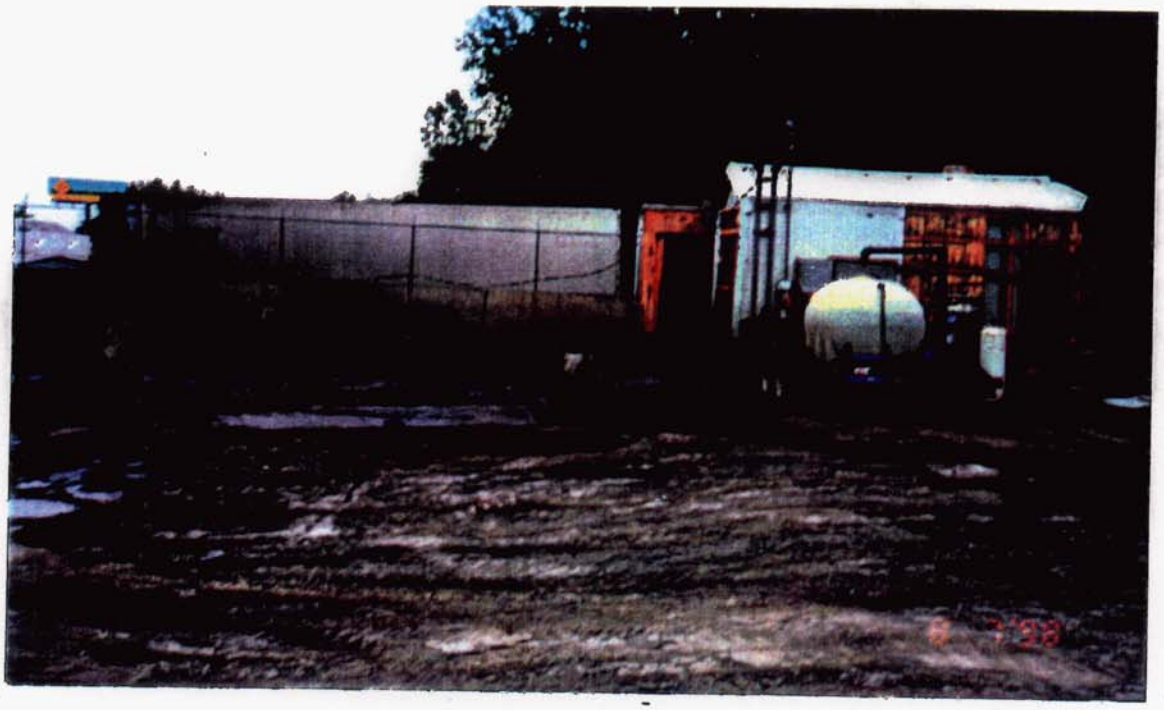
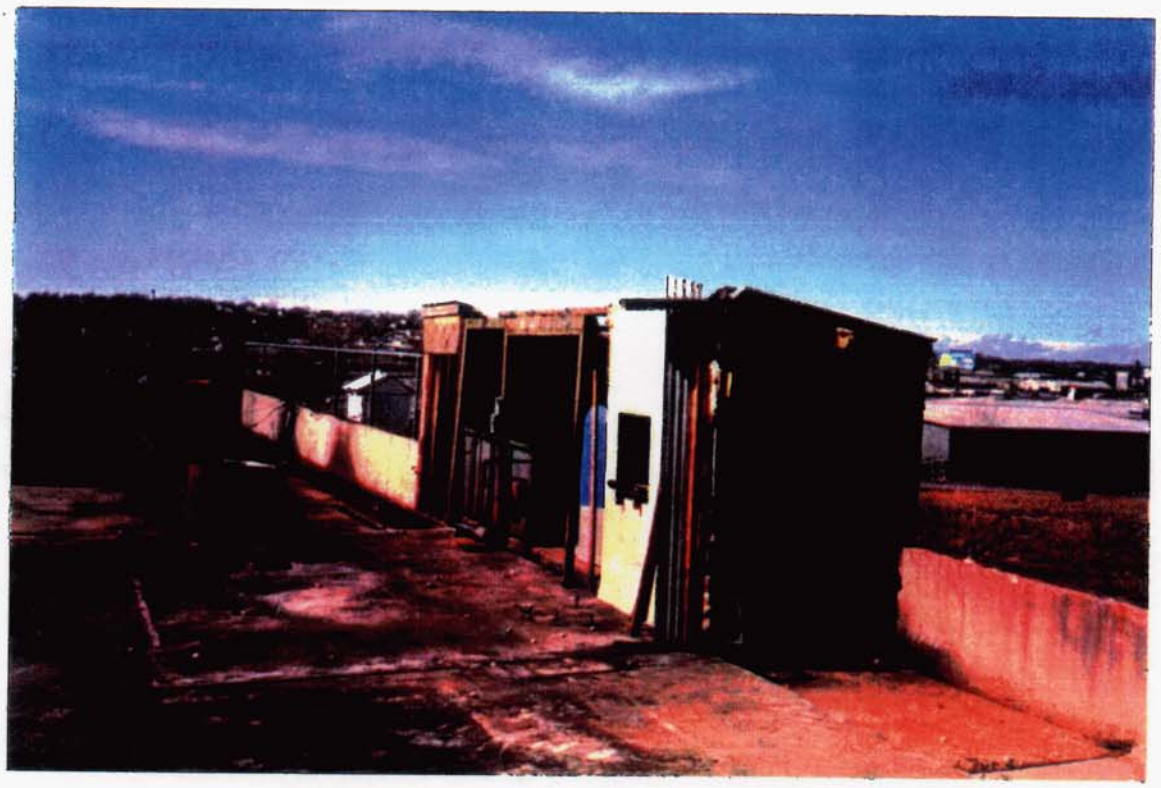
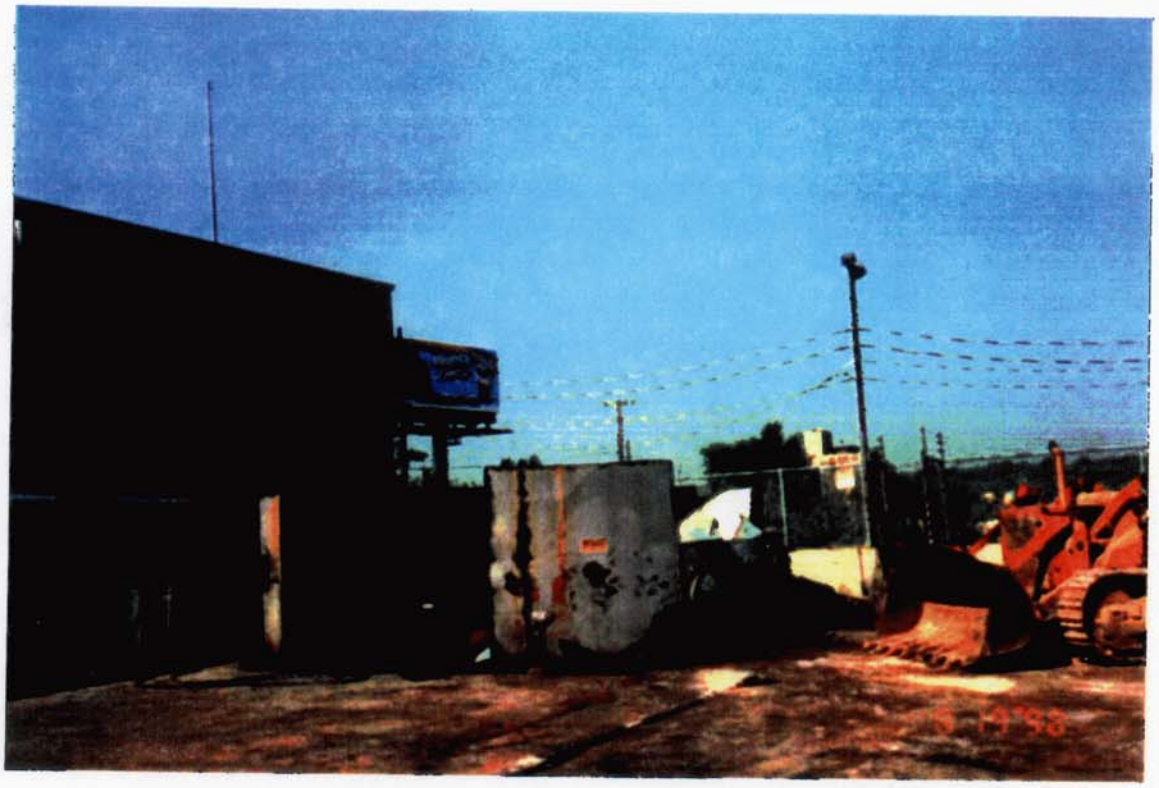




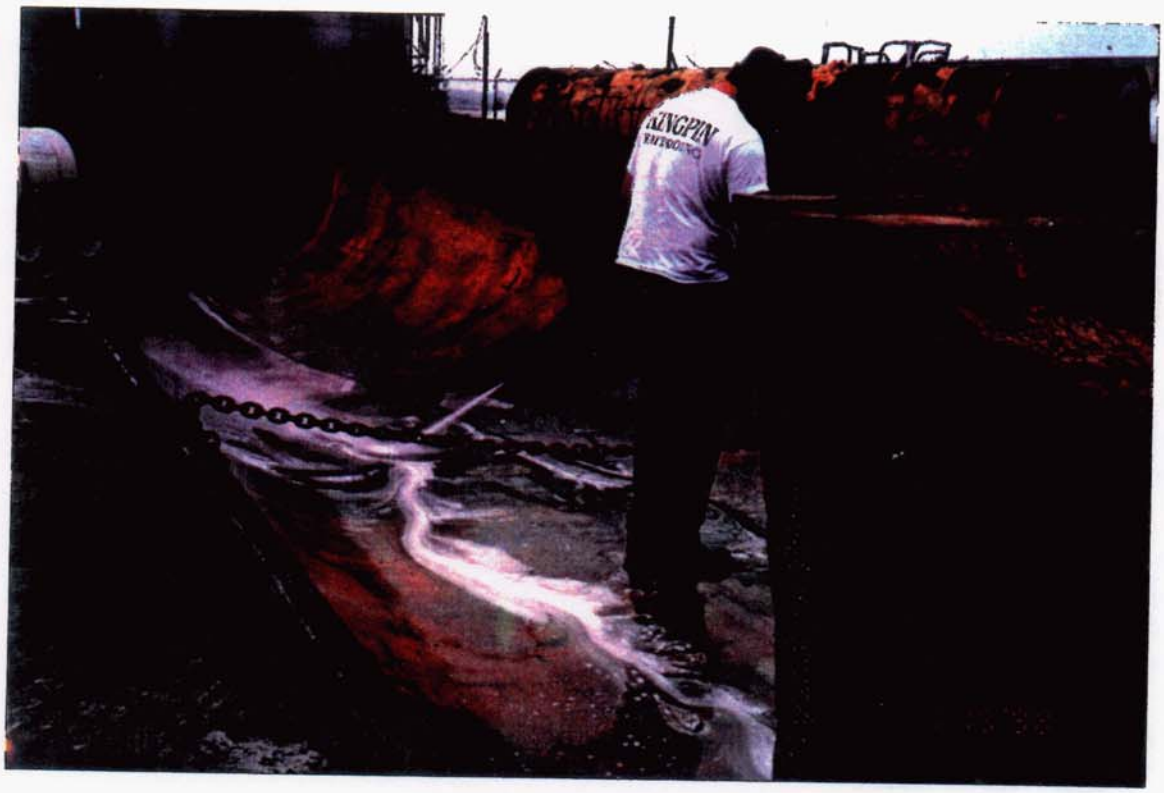


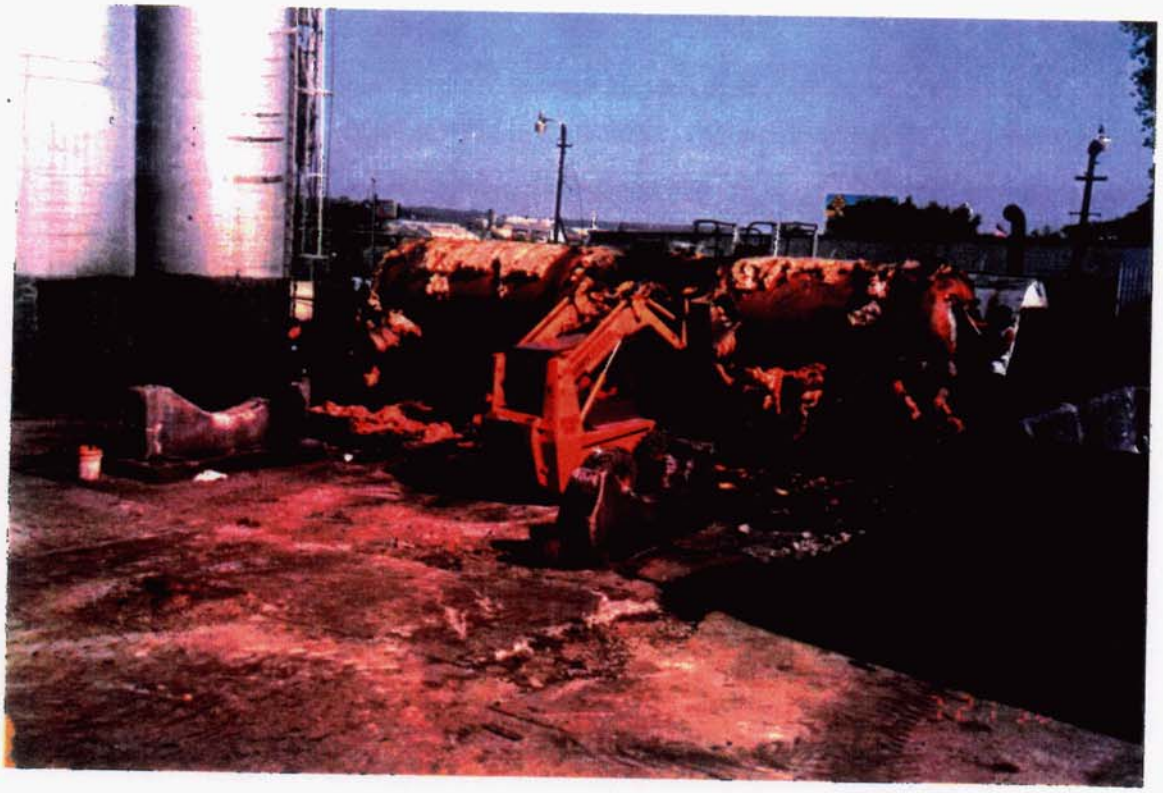
CASE

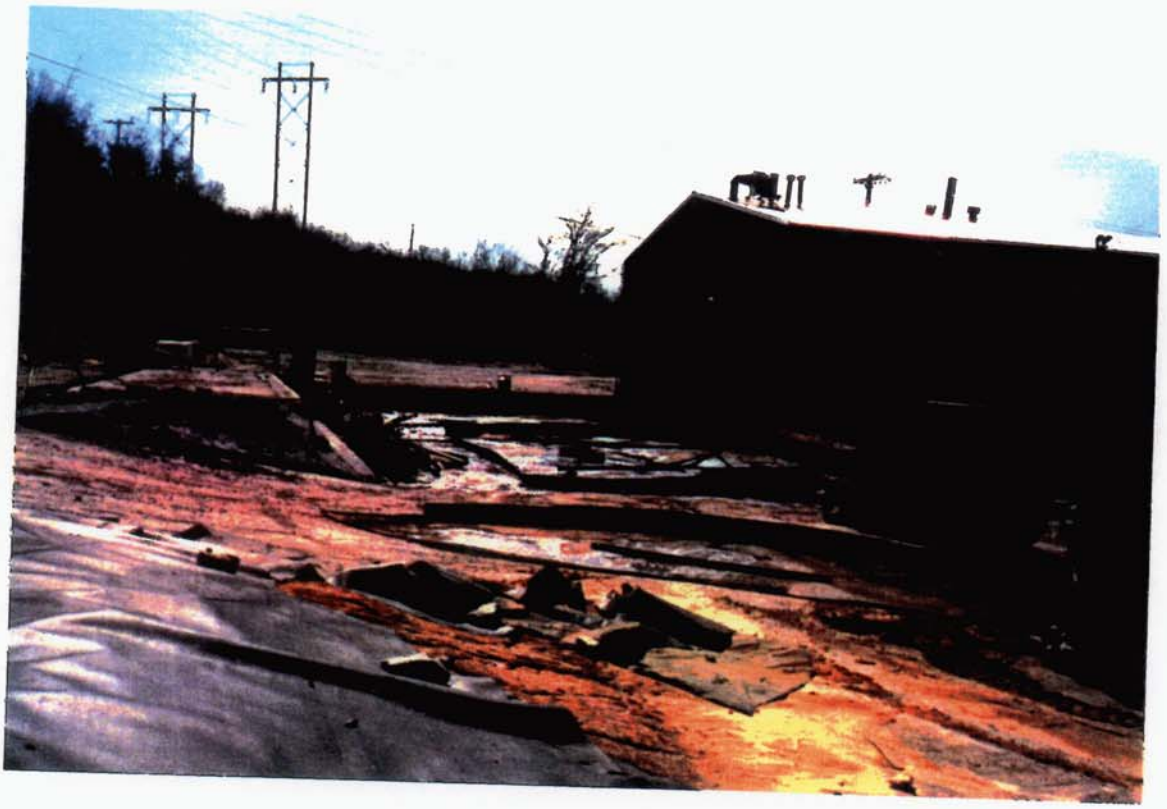
2 OF 2 PCS.
#4 COOKER.

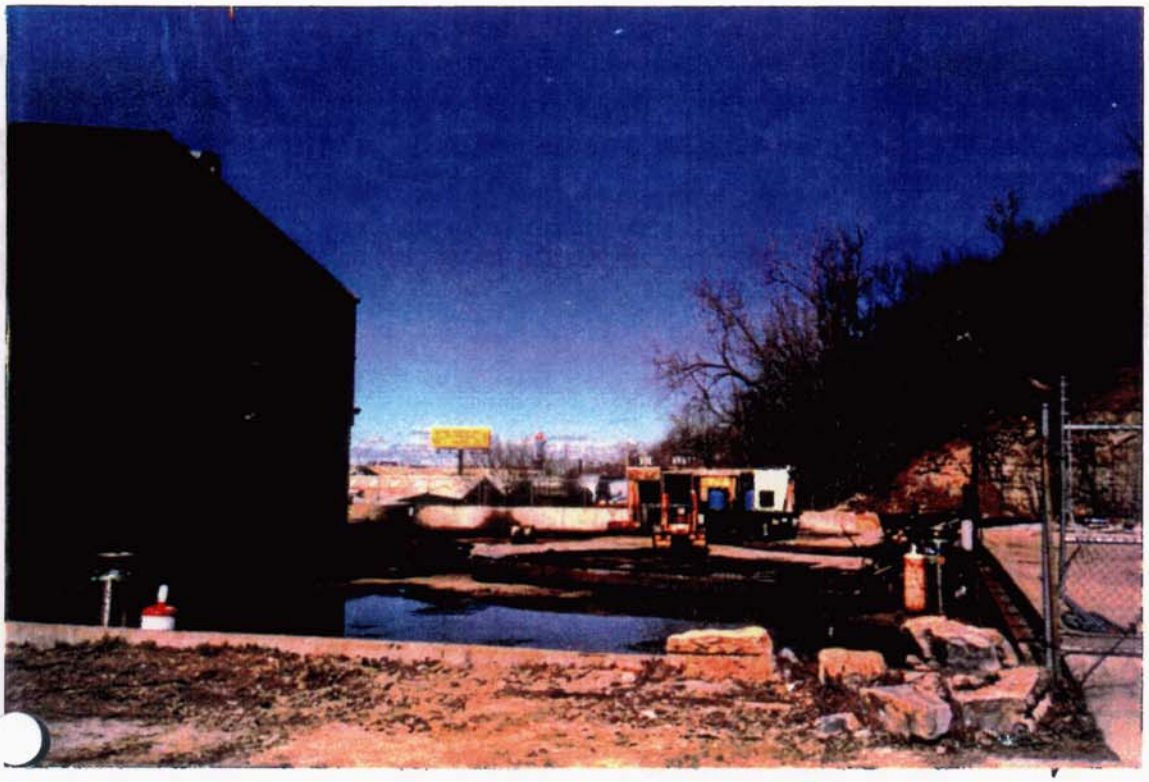
#7
Link-Belt

7 15 '98


KINGPIN







SECTION F

ANALYTICAL REPORTS
and
SUMMARY TABLES

for

SOIL SAMPLES COLLECTED DURING 2000 CLOSURE

at

INDUSTRIAL SERVICE CORPORATION
1633 Marsh Avenue
Blue Summit, Missouri

Prepared by:

Deffenbaugh Industries, Inc.
18181 West 53rd Street
Shawnee Kansas, 66217

April 20, 2001

INTRODUCTION

This volume contains reports of laboratory analysis conducted on soil samples collected in association with closure activities completed during the year 2000. Most analyses were performed by Pace Laboratories located in Lenexa, Kansas. The analysis of samples for dioxins and furans was performed by Pace Laboratories located in Minneapolis, Minnesota.

The report is prepared with summary tables followed by the supporting laboratory analytical reports. A site map has been prepared which depicts the sample locations and is presented first in the report. The map is followed by a summary table of the analysis of samples collected from the base and sidewalls of the excavation along with the supporting analytical reports. The next section presents the analysis of samples collected from borings installed beneath the building which is located on-site. This section is followed by a summary of the analysis of dioxins and furans conducted on the excavation samples. This analysis is reported separately from other excavation analyses because it was performed by a different laboratory with a different reporting format and requires a more complicated review of the total concentrations of all isomers reported in comparison with screening levels. The final section is a copy of the most recent EPA Region III RBC table. Residential and industrial screening levels presented in tables 1, 2 and 3 have been updated to coincide with this document dated October 5, 2000.

EXCAVATION SAMPLES

Table 1 presents the results of analysis conducted on samples collected from the base and sidewalls of the excavation. Surface samples were collected from a depth of 0 to 6 inches at sidewall locations. Middle samples were collected from a depth of 5 to 6 feet at sidewall locations. Base samples were collected at a depth of 11 to 12 feet at sidewall locations which exceeded five feet in depth. Base samples at locations EX-6 and EX-11 were collected at a depth of 5 to 6 feet. All locations identified with a number alone were collected from the floor of the excavation.

Analyses included volatile organic compounds, semi-volatile organic compounds, herbicides, pesticides and PCB's, as well as metals. The table presents a listing of the constituents analyzed, grouped by the fractions previously identified. Risk based concentrations for both residential and industrial levels are reported for each compound. If a compound exceeded the residential level it was bolded. If a compound exceeded the industrial level it was bolded and underlined. There were no detections in excess of either residential of industrial levels for all volatile organic compounds, semi-volatile organic compounds, herbicides, and pesticides.

Two samples were reported with concentrations of PCB-1260 in excess of residential levels and one was reported in excess of industrial levels. All of these samples were collected from the surface of sidewall samples at the lateral extent of the excavation. Samples collected beneath the surface at these locations indicate the compound was not conveyed to that depth.

All metals were reported at concentrations below residential levels with the exception of two. Iron was reported above residential levels in three samples. All samples were reported in the range of 14,100 ug/kg to 24,800 ug/kg. The residential level for iron is 23,000 ug/kg. With the exception of

two locations which were reported non-detect, all results for arsenic were reported in excess of industrial levels. The reported detections ranged from 8.3 to 22.0 ug/kg and the industrial level is 3.8 ug/kg. The reported levels for arsenic are within the range of background concentrations for a loess soil as has been established in prior reports. The range of concentrations reported for iron are also believed to be within the range of background concentrations.

SAMPLE RESULTS FROM BORINGS BENEATH THE BUILDING

Borings were installed beneath the building located on the ISC property to augment data which was previously obtained in 1998. A data validation review of results obtained at that time supported all fractions with the exception of semi-volatile organic compounds and pesticides. Hexvalent chromium was also inadvertently omitted from the suite of analyses performed on these samples in 1998. Borings were installed adjacent to the previous locations and soil samples collected were analyzed for the fractions previously found invalid.

Table 2 was prepared to summarize the results of these analyses. The presentation is similar to that of Table 1. Each constituent analyzed is listed and grouped by fractions. Risk based concentrations for both residential and industrial levels are reported for each compound. A comparison of the reported concentrations for each of these compounds revealed no values in excess of residential levels for any analyte.

DIOXIN AND FURAN RESULTS FOR EXCAVATION SAMPLES

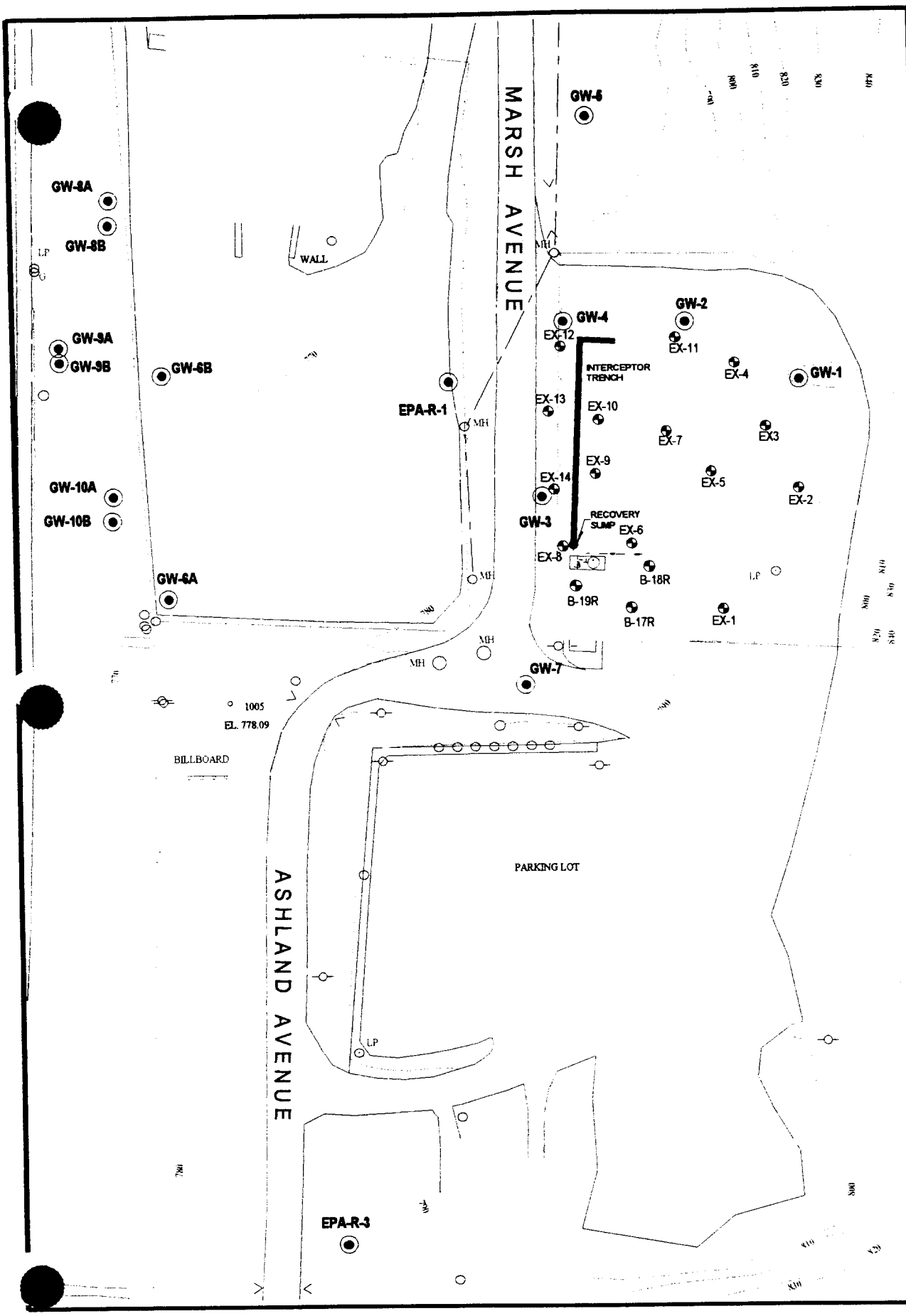
Table 3 is prepared to present the results of analyses performed on the excavation samples for isomers of dioxins and furans. A total of 17 different isomers were analyzed for each sample submitted. The reported concentration of each isomer is then multiplied by a toxicity equivalence factor (TEF). This value is then comparable to the toxicity level assigned to the 2,3,7,8-TCDD isomer. This isomer has an established RBC value of 3.8×10^{-5} mg/kg for industrial levels and 4.3×10^{-6} mg/kg for residential levels.

The table lists two columns for each sample. Values reported from the laboratory are in ng/kg. The first column is the value of the isomer as reported. The second column contains the result of the reported value multiplied by the corresponding TEF. The second column is then totaled and reported in the units ng/kg. The following weighted total is converted to units of mg/kg for ease of comparison to the RBC concentration. Concentrations in excess of residential levels have been shaded. There were no values in excess of industrial levels. All values reported in excess of residential levels were from surface samples at the lateral extent of the excavation.

CONCLUSION

Of the compounds analyzed, four were found above residential levels. Two of these were found above industrial levels. The metal constituents iron and arsenic are within background concentrations. Occurrences of PCB-1260 and dioxins and furans were limited to surface expressions at the lateral extent of the excavation and only one of these was in excess of industrial levels.

Site map



LEGEND

MONITOR WELLS

EXCAVATION SAMPLE LOCATION

N

0 20 40 80

SCALE FEET

FIGURE 1		
	DATE	4/19/01
	DESIGNED	JMC
	DETAILED	JMC
	CHECKED	JMC

INDUSTRIAL SERVICE CORP.
1633 MARSH AVE.
KANSAS CITY, MO 64126

SITE MAP

Excavation

TABLE 1
SOIL EXCAVATION DATA
INDUSTRIAL SERVICE CORPORATION
BLUE SUMMIT, MISSOURI

SEMI-VOLATILE ORGANIC COMPOUNDS	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
	RISK BASED CONCENTRATIONS																										
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			26-Jun-00	1-Jun-00	25-Jun-00	27-Jun-00	28-Jun-00	26-Jun-00	27-Jun-00	28-Jun-00	27-Jun-00	25-Jun-00	16-Sep-01	25-Jun-00	27-Jun-00	27-Jun-00	28-Jun-00	28-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	28-Jun-00	27-Jun-00	28-Jul-00	31-Jul-00	30-Jul-00
Acenaphthene	120,000,000	4,700,000	380(J)	ND	ND	ND	ND	75(J)	ND	ND	ND	ND	ND	96(J)	300(J)	ND	ND	1500(J)	880(J)	1100(J)	330(J)	680(J)	ND	ND	ND	ND	ND
Anthracene	610,000,000	23,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	980(J)	ND	ND	ND	ND	ND	ND	54(J)	ND	ND
Benzoic acid	8,200,000,000	310,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	7,800	870	ND	ND	ND	ND	ND	ND	ND	ND	ND	42(J)	ND	ND	ND	ND	ND	860(B,J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	410,000	46,000	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160(B,J)	490(J)	ND	250(J)	ND	1500(B,J)	1900(B,J)	ND	1900(B,J)	ND	ND	ND	ND	ND
Chrysene	780,000	87,000	120(J)	ND	ND	ND	ND	55(J)	490(J)	ND	ND	47(J)	ND	ND	ND	ND	ND	570(J)	ND	ND	160(J)	490(J)	ND	ND	ND	ND	ND
2,4-Dimethylphenol	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	8,200,000	310,000	ND	ND	100(J)	ND	ND	59(J)	ND	ND	ND	ND	ND	80(J)	230(J)	ND	ND	1100(J)	710(J)	860(J)	190(J)	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	160,000,000	7,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	240,000	27,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	4,100,000	160,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	3,800	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	410,000	46,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	73,000	8,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	82,000,000	3,100,000	ND	ND	ND	ND	ND	39(J)	470(J)	ND	ND	ND	ND	ND	ND	ND	ND	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	82,000,000	3,100,000	430	ND	ND	ND	ND	120(J)	ND	ND	ND	ND	ND	130(J)	390(J)	ND	120(J)	1300(J)	1700(J)	1300(J)	270(J)	550(J)	ND	1100(J)	ND	ND	ND
2-Methylnaphthalene	41,000,000	1,600,000	5400	ND	130(J)	ND	ND	270(J)	ND	ND	1600(J)	ND	ND	1100	5000	ND	610	3200	1700(J)	22000	4300	4200	ND	12000	86(J)	ND	ND
2-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1,000,000	39,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	41,000,000	1,600,000	1100	ND	58(J)	ND	ND	64(J)	ND	ND	ND	ND	ND	210(J)	1300	ND	250(J)	6900	ND	7800	1400	950(J)	ND	2600(J)	ND	ND	ND
3-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	410,000,000	16,000,000	ND	ND	ND	ND	ND	ND	3200(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Cresol (4-methylphenol)	10,000,000	390,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyradine	2,000,000	78,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	200,000,000	7,800,000	260(J)	ND	200(J)	260(B,J)	ND	330(J)	750(B,J)	ND	ND	270(J)	330(B,J)	250(B,J)	360(B,J)	210(B,J)	ND	ND	ND	ND	340(B,J)	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	1,200,000	130,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene			1600	ND	100(J)	ND	ND	340(J)	520(J)	ND	1400(J)	ND	ND	470	1200	ND	410	5900	4100	4000(J)	1000	1900(J)	ND	2600(J)	52(J)	ND	ND
Phenol	1,200,000,000	47,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	61,000,000	2,300,000	250(J)	ND	56(J)	ND	ND	120(J)	970(J)	ND	ND	ND	ND	97(J)	300(J)	ND	120(J)	2600	1100(J)	1000(J)	330(J)	1400(J)	ND	ND	ND	ND	ND

(B)-Analyte is found in the associated blank

(J)-Detected but below the PRL; result is estimated

Bold-exceeds residential levels
Bold underlined-exceeds industrial levels

TABLE 1
SOIL EXCAVATION DATA
INDUSTRIAL SERVICE CORPORATION
BLUE SUMMIT, MISSOURI

VOLATILE ORGANIC COMPOUNDS	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
	RISK BASED CONCENTRATIONS																										
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			24-Jun-00	30-May-00	26-Jun-00	26-Jun-00	20-Jun-00	26-Jun-00	26-Jun-00	20-Jun-00	26-Jun-00	24-Jun-00	24-Jun-00	24-Jun-00	24-Jun-00	24-Jun-00	22-Jun-00	22-Jun-00	29-Jun-00	23-Jun-00	24-Jun-00	30-Jun-00	20-Jun-00	23-Jun-00	27-Jul-00	27-Jul-00	27-Jul-00
Within Holding Time			No	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
MDNR Sampled							x			x							x	x					x				
Acetone	200,000,000	7,800,000	32(B)	73(B,J)	45(B)	7.1(B,J)	50(B)	23(B)	14(B,J)	49(B,J)	21(B)	320(B)	420(B)	34(B)	51(B)	ND	210(B)	5000(B)	280(B)	270(B)	370(B)	120(B)	24(B)	470(B)	ND	ND	ND
Benzene	100,000	12,000	6.9	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	190	ND	ND	ND	ND	170	10	ND	3.7(J)	15	ND	ND	ND
2-Butanone (MEK)	1,200,000,000	47,000,000	ND	ND	9.2(J)	ND	ND	ND	ND	ND	ND	44	37	ND	ND	ND	40	18000	ND	ND	15	ND	ND	30	ND	ND	ND
Carbon disulfide	200,000,000	7,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3(J)
cis-1,2-Dichloroethane	20,000,000	780,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	83,000	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	41,000,000	1,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	2,000,000	220,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	440,000	49,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200,000,000	7,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	520,000	58,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	200,000,000	7,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3(J)	ND	82	930	ND	3.9(J)	260(J)	ND	270	370	ND	ND	100	ND	ND	4.3(J)
2-Hexanone	82,000,000	3,100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	73,000	8,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	780,000		4.2(B,J)	19(B,J)	580(B)	56(J)	6.2(B)	84(B)	22(B)	8.5(B,J)	2.9(B,J)	4.1(B,J)	4.1(B,J)	7.7	4.5(B,J)	2.8(B,J)	94(B)	500(B,J)	83(B)	ND	4.3(B,J)	150(B)	1.9(B,J)	ND	4.3(B,J)	ND	5.1(B,J)
Methyl chloride (see Chloromethane)																											
4-Methyl-2-pentanone	160,000,000	6,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-xylene	4,100,000,000	160,000,000	43	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	180	2000	ND	10(J)	900	ND	2400	810	6.8	ND	40	ND	ND	26
1,1,1,2-Tetrachloroethane	220,000	25,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	110,000	12,000	ND	ND	ND	ND	ND	ND	4.4(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46
1,1,2,2-Tetrachloroethane	29,000	3,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	410,000,000	16,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	410,000,000	16,000,000	ND	9.4(J)	ND	ND	ND	ND	11	9.2(J)	ND	1.6(J)	ND	38	370	ND	2.4(J)	220(J)	ND	740	23	ND	ND	11	ND	ND	ND
trans-1,2-Dichloroethane	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	570,000,000	22,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	520,000	58,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	3,800	430	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	4,100,000,000	160,000,000	61	18(J)	ND	ND	ND	ND	2.6(J)	46	ND	24	ND	440	3900	ND	37	3000	ND	7000	2400	20	ND	120	ND	ND	61

(B)-Analyte is found in the associated blank

(J)-Detected but below the PRL; result is estimated

Bold-exceeds residential levels
Bold underlined-exceeds industrial levels

TABLE 1
SOIL EXCAVATION DATA
INDUSTRIAL SERVICE CORPORATION
BLUE SUMMIT, MISSOURI

OTHER	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
	RISK BASED CONCENTRATIONS																										
HERBICIDES																											
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			20-Jun-00	5-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	24-Jun-00	20-Jun-00	19-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	20-Jun-00	25-Jul-00	25-Jul-00	25-Jul-00
2,4-d	20,000,000.000	780,000.000	ND	13(B,J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30(J)	ND	ND	ND	11(J)	11(J)	7.1(J)	ND
2,4,5-TP (Silvex)	16,000,000.000	630,000.000	ND	ND	ND	2.4(J)	ND	ND	3.6(J)	ND	2.2(J)	ND	ND	ND	ND	ND	ND	ND	1.7(J)	2.6(J)	ND	3.4(J)	ND	1.2(J)	1.1(J)	1.1(J)	ND
PESTICIDES AND PCBS																											
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			20-Jun-00	2-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	21-Jun-00	21-Jun-00	20-Jun-00	21-Jun-00	20-Jun-00	20-Jun-00	21-Jun-00	21-Jun-00	21-Jun-00	20-Jun-00	20-Jun-00	21-Jun-00	20-Jun-00	21-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	25-Jul-00	25-Jul-00	25-Jul-00
beta-BHC	3,200	350	ND	2.0(B,J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8	ND	ND	ND	ND
gamma-BHC	4,400	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	0.31(J)	ND	0.84(J)
Heptachlor	1,300	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89(J)
PCB-1260	2,900	320	ND	65	ND	35(J)	ND	ND	460	ND	340	ND	ND	150	140	36	ND	ND	440	ND	69	ND	ND	ND	200	4000	69
Heptachlor epoxide	630	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METALS	SOIL (mg/kg)		DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			27-Jun-00	7-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	30-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	27-Jun-00	27-Jul-00	27-Jul-00	27-Jul-00
Aluminum	2,000,000.00	78,000.00	13500(B)	12900	18600(B)	12100(B)	10200	17700(B)	13700(B)	12400	8440(B)	16900(B)	15300(B)	11700(B)	13600(B)	3320(B)	13200	13100	2950(B)	18400(B)	16000(B)	3480(B)	15600	17300(B)	14600	9690	17600
Antimony	820.00	31.00	ND	9.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	3.8000	0.4300	13.4	ND	10.4	14.8	8.03(J)	22	14.7	9.77(J)	8.3(J)	13.4	14.8	13.2	13.1	ND	10.3	10.3	6.61(J)	12.7	11.7	7.48(J)	11	19.2	ND	10.4	12.6
Barium	140,000.00	5,500.00	254(B)	178	125(B)	278(B)	126	241(B)	296(B)	226	127(B)	229(B)	261(B)	285(B)	271(B)	202(B)	226	238	77.9(B)	255(B)	251(B)	74.7(B)	249	281(B)	448	189	221
Beryllium	4,100.00	160.00	0.81	0.702	1.13	0.857	0.983	0.98	0.662	0.622	0.344	0.734	0.725	0.63	0.651	0.201	0.685	0.688	0.188	0.773	0.703	0.219	0.727	0.787	0.711	0.526	0.667
Cadmium_FOOD	2,000.00	78.00																									
Cadmium_WATER	1,000.00	39.00	0.0254(B)	4.6	0(B)	2.59(B)	ND	6.39(B)	1.55(B)	0.231(J)	0.569(J)	0(B)	0.0064(B)	0.365(B,J)	0.0821(B,J	0.855(B)	ND	0.113(J)	0.481(B,J)	0.675(B)	0(B)	0.582(B)	ND	0.223(B,J)	ND	0.563	ND
Calcium			4260	68900	14500	201000	27300	29300	37200	3080	247000	2530	3620	3740	3590	254000	18900	3500	283000	2500	3410	300000	2440	3760	8490	169000	24000
Chromium	3,100,000.00	120,000.00	15.5	23.8(B)	26.4	48.4	15.8	81.6	36.9	13.6	12.8	17.1	17.1	15.9	17.9	24.8	13.7	15.4	9.1	19.1	18	11.9	15.8	19.7	21.1	18.1	32.6
Cobalt	120,000.00	4,700.00	12(B)	8.79	16.9(B)	8.75(B)	14.4	13.8(B)	9.39(B)	11.3	4.33(J)	11.7(B)	12.1(B)	11.9(B)	12(B)	3.18(B)	8.42	12.1	2.89(B)	11.8(B)	12.2(B)	3.22(B)	11	12.5(B)	11.5	6.43	11.9
Copper	82,000.00	3,100.00	20.2	24.5	18.1	26.8	31.5	43.4	30.9	27.3	16.2	13.8	17.3	17.1	17.8	47.6	27.7	24.1	17.4	24.6	16.7	17.2	17.4	24.6	26	22.4	27.7
Iron	610,000.00	23,000.00	21200(B)	18000	24800(B)	16700(B)	15800	23600(B)	17200(B)	19800	8480(J)	19500(B)	22200(B)	20300(B)	18800(B)	7300(B)	16800	18100	6540(B)	20300(B)	21800(B)	6560(B)	20000	23800(B)	19500	14100	21400
Lead			15.7(B)	32	9.01(B)	71(B)	8.38	50.3(B)	462(B)	20	137(J)	12.8(B)	13.4(B)	17.2(B)	17.1(B)	90.7(B)	19.8	18.8	103(B)	19.1(B)	16.1(B)	54.8(B)	12	14.3(B)	15.8	141	34.4
Magnesium			3870(B)	5780	10900(B)	6710(B)	5300	5230(B)	3300(B)	3400	3650(J)	3120(B)	3970(B)	3600(B)	3770(B)	5050(B)	2760	3690	6310(B)	3250(B)	4100(B)	4580(B)	3260	4520(B)	4330	5220	4980
Manganese_FOOD	290,000.00	11,000.00																									
Manganese_NON-FOOD	41,000.00	1,600.00	751(B)	305	356(B)	418(B)	209	560(B)	492(B)	498	364(J)	821(B)	771(B)	1100(B)	540(B)	338(B)	122	352	375(B)	924(B)	617(B)	336(B)	837	772(B)	464	535	537
Mercury			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	41,000.00	1,600.00	24.1(B)	40.9	41.1(B)	43.3(B)	37.5	73.5(B)	24.5(B)	24.1	12.2(J)	23(B)	25.7(B)	30.9(B)	24.4(B)	12.4(B)	25.6	25.9	9.86(B)	23.5(B)	24(B)	10.5(B)	21.9	26.4(B)	25.2	17.2	35.4
Potassium			1640(B)	2380	5770(B)	2980(B)	2570	3530(B)	1580(B)	1310	1190(J)	1840(B)	1780(B)	1810(B)	1900(B)	642(B)	1440	1610	799(B)	2200(B)	2140(B)	1020(B)	1650	2110(B)	2190	1520	2730
Silver	10,000.00	390.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.213(J)	ND	ND	0.19(J)	ND	ND	ND	ND	ND
Thallium	140.00	5.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	1,200,000.00	47,000.00	0.454(B)	ND	0(B)	0(B)	ND	0(B)	0.11(B)	ND	0(J)	0.552(B)	0.278(B)	0(B)	0.296(B)	0(B)	ND	ND	0(B)	3.27(B,J)	0.0663(B)	0(B)	ND	1.08(B)	ND	ND	ND
Vanadium	14,000.00	550.00	34.1(B)	37.5	15.1(B)	85.1(B)	7.59	160(B)	29(B)	28.1	15(J)	36.1(B)	39.3(B)	29.9(B)	38.3(B)	7.66(B)	28.8	33	7.78(B)	40.9(B)	39.2(B)	8.71(B)	33.5	44.7(B)	35.1	24	58.4
Zinc	610,000.00	23,000.00	65.5(B)	137	59.5(B)	188(B)	24.8	405(B)	227(B)	68.4	83.7(J)	61.5(B)	78.7(B)	73.9(B)	75.8(B)	172(B)	206	110	58.9(B)	65.8(B)	71.8(B)	57.3(B)	57.7	72.8(B)	70.4	116	125
Cyanide,Total	41,000.00	1,600.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide,Total			30.4	39.4	28.7	26.7	19.8	22.6	20.8	29.6	21.5	29.9	20.5	19.7	15.4	16.3	24.2	30.3	20.6	19.8	20.6	20.2	33.5	ND	3170	1740	491
Hexavalent chromium	6,100.00	230.00	0.582	0.712	0.215	0.145	0.211	0.385	0.28	0.148	0.204	0.386	0.922	0.418	0.333	0.203	0.121	0.151	0.134	0.506	0.399	ND	0.299	0.568	2.06	0.584	1.49

(B)-Analyte is found in the associated blank

(J)-Detected but below the PRL, result is estimated

Bold-exceeds residential levels
Bold underlined-exceeds industrial levels

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July 28, 2000

Mr. RODNEY MANN
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6041378
Client Project ID: RFI EX1

Dear Mr. MANN:

Enclosed are the analytical results for sample(s)received by the laboratory on May 24, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 07/28/00
PAGE: 1

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

Solid results are reported on a dry weight basis

Pace Sample No: 603500802 Date Collected: 05/24/00 Matrix: Soil
Client Sample ID: EX1 Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
M 's-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
...uminum	12900	mg/kg	7.97	0.97	06/07/00	CAS	7429-90-5	
Antimony	9.58	mg/kg	5.32	0.97	06/07/00	CAS	7440-36-0	
Arsenic	ND	mg/kg	9.04	0.97	06/07/00	CAS	7440-38-2	
Barium	178	mg/kg	0.425	0.97	06/07/00	CAS	7440-39-3	
Beryllium	0.702	mg/kg	0.106	0.97	06/07/00	CAS	7440-41-7	
Cadmium	4.6	mg/kg	0.532	0.97	06/07/00	CAS	7440-43-9	
Calcium	68900	mg/kg	10.6	0.97	06/07/00	CAS	7440-70-2	
Chromium	23.8	mg/kg	0.744	0.97	06/07/00	CAS	7440-47-3	1
Cobalt	8.79	mg/kg	0.744	0.97	06/07/00	CAS	7440-48-4	
Copper	24.5	mg/kg	1.06	0.97	06/07/00	CAS	7440-50-8	
Iron	18000	mg/kg	4.25	0.97	06/07/00	CAS	7439-89-6	
Lead	32	mg/kg	5.32	0.97	06/07/00	CAS	7439-92-1	
Magnesium	5780	mg/kg	5.32	0.97	06/07/00	CAS	7439-95-4	
Manganese	305	mg/kg	0.744	0.97	06/07/00	CAS	7439-96-5	
Nickel	40.9	mg/kg	3.19	0.97	06/07/00	CAS	7440-02-0	
Potassium	2380	mg/kg	106	0.97	06/07/00	CAS	7440-09-7	
Silver	ND	mg/kg	0.744	0.97	06/07/00	CAS	7440-22-4	
Vanadium	37.5	mg/kg	1.28	0.97	06/07/00	CAS	7440-62-2	
Zinc	137	mg/kg	10.6	0.97	06/07/00	CAS	7440-66-6	
Tin	ND	mg/kg	26.6	0.97	06/07/00	CAS	7440-31-5	
Date Digested					05/30/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.169	1.00	06/16/00	JAH	7439-97-6	
ium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6041378
Client Project ID: RFI EX1

Pace Sample No: 603500802 Date Collected: 05/24/00 Matrix: Soil
Client Sample ID: EX1 Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.517	0.94	06/06/00	CAS	7440-28-0	
Date Digested					05/30/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.712	mg/kg	0.11	0.10	06/02/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.1	1.00	06/01/00	JKS	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	39.4	mg/kg	5.48	1.00	06/01/00	DOC		2
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	8.7	%		0.91	05/30/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	2.0	ug/kg	2.2	1.00	06/02/00	JLO	319-85-7	1,3
gamma-BHC (Lindane)	ND	ug/kg	1.4	1.00	06/02/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.1	1.00	06/02/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	3.6	1.00	06/02/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	104	%		0.91	06/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	101	%		0.91	06/02/00	JLO	877-09-8	
Date Extracted					05/31/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	65	ug/kg	36	1.00	06/06/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	59	%		0.91	06/06/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.91	06/06/00	JLO	877-09-8	
Date Extracted					05/30/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	13	ug/kg	44	1.00	06/05/00	JLO	94-75-7	1,3
2,4,5-TP(Silvex)	ND	ug/kg	16	1.00	06/05/00	JLO	93-72-1	
hlorophenyl Acetic Acid (S)	82	%		0.91	06/05/00	JLO		

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Pace Project Number: 6041378
Client Project ID: RFI EX1

Pace Sample No: 603500802 Date Collected: 05/24/00 Matrix: Soil
Client Sample ID: EX1 Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					05/30/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	27	5.00	05/30/00	NLA	74-87-3	4
Vinyl Chloride	ND	ug/kg	27	5.00	05/30/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	75-00-3	
Methylene Chloride	19	ug/kg	27	5.00	05/30/00	NLA	75-09-2	1,3
1,1-Dichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	71-55-6	
zene	ND	ug/kg	27	5.00	05/30/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	79-01-6	
Toluene	9.4	ug/kg	27	5.00	05/30/00	NLA	108-88-3	3
Tetrachloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	27	5.00	05/30/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	27	5.00	05/30/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	27	5.00	05/30/00	NLA	95-47-6	
Styrene	ND	ug/kg	27	5.00	05/30/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	27	5.00	05/30/00	NLA	87-68-3	
Acetone	73	ug/kg	110	5.00	05/30/00	NLA	67-64-1	1,3
2-Butanone	ND	ug/kg	55	5.00	05/30/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	55	5.00	05/30/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	55	5.00	05/30/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	550	5.00	05/30/00	NLA	591-78-6	
Xylene (Total)	18	ug/kg	27	5.00	05/30/00	NLA	1330-20-7	3
1,4-Dioxane (P-Dioxane)	ND	ug/kg	270	5.00	05/30/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.91	05/30/00	NLA	1868-53-7	
Toluene-d8 (S)	96	%		0.91	05/30/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	98	%		0.91	05/30/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.91	05/30/00	NLA	17060-07-0	

GC/MS Semivolatiles

S olatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

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Pace Project Number: 6041378
Client Project ID: RFI EX1

Pace Sample No: 603500802 Date Collected: 05/24/00 Matrix: Soil
Client Sample ID: EX1 Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	360	0.99	06/01/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	360	0.99	06/01/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1700	0.99	06/01/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	360	0.99	06/01/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	360	0.99	06/01/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	360	0.99	06/01/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	360	0.99	06/01/00	WAW	83-32-9	
enzofuran	ND	ug/kg	360	0.99	06/01/00	WAW	132-64-9	
.4-Dinitrotoluene	ND	ug/kg	360	0.99	06/01/00	WAW	121-14-2	
Fluorene	ND	ug/kg	360	0.99	06/01/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	0.99	06/01/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	360	0.99	06/01/00	WAW	85-01-8	
Anthracene	ND	ug/kg	360	0.99	06/01/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	360	0.99	06/01/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	360	0.99	06/01/00	WAW	206-44-0	
Pyrene	ND	ug/kg	360	0.99	06/01/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	360	0.99	06/01/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	360	0.99	06/01/00	WAW	56-55-3	
Chrysene	ND	ug/kg	360	0.99	06/01/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	0.99	06/01/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	108-39-4	
Pyridine	ND	ug/kg	360	0.99	06/01/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	86	%		0.91	06/01/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	89	%		0.91	06/01/00	WAW	321-60-8	
Terphenyl-d14 (S)	84	%		0.91	06/01/00	WAW	1718-51-0	
Phenol-d6 (S)	84	%		0.91	06/01/00	WAW	13127-88-3	
2-Fluorophenol (S)	83	%		0.91	06/01/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	57	%		0.91	06/01/00	WAW	118-79-6	
Date Extracted					05/25/00			

REPORT OF LABORATORY ANALYSIS

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Pace Project Number: 6041378
Client Project ID: RFI EX1

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[2]	Analysis conducted in excess of EPA recommended holding time.
[3]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[4]	This sample was analyzed at dilution due to low internal standard area recoveries in the straight analysis.

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83763
Analysis Method: EPA 8270
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

METHOD BLANK: 603501305
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	96	330	1
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Phenanthrene	ug/kg	60	330	1
Anthracene	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	44	330	1
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

METHOD BLANK: 603501305
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Chrysene	ug/kg	38	330	1
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	90		
2-Fluorobiphenyl (S)	%	93		
Terphenyl-d14 (S)	%	92		
Phenol-d6 (S)	%	88		
2-Fluorophenol (S)	%	93		
2,4,6-Tribromophenol (S)	%	116		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603501313 603501321

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	2723	1683	61.8	1749	64.3	4	
1,4-Dichlorobenzene	ug/kg	0	1815	1406	77.4	1405	77.5	0	
Acenaphthene	ug/kg	0	1815	1486	81.9	1570	86.5	5	
2,4-Dinitrotoluene	ug/kg	0	1815	1674	92.2	1871	103	11	
Pyrene	ug/kg	47.82	1815	1565	83.6	1845	99.1	17	
Nitrobenzene-d5 (S)					83		93		
2-Fluorobiphenyl (S)					84		96		
Terphenyl-d14 (S)					67		85		
Phenol-d6 (S)					74		82		
2-Fluorophenol (S)					88		96		
2,4,6-Tribromophenol (S)					77		78		

LABORATORY CONTROL SAMPLE: 603501339

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1331	53.2	
1,4-Dichlorobenzene	ug/kg	1667	1184	71.1	
Acenaphthene	ug/kg	1667	1387	83.2	
2,4-Dinitrotoluene	ug/kg	1667	1385	83.1	
Py.	ug/kg	1667	1614	96.9	

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QUALITY CONTROL DATA

DATE: 07/28/00

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603501339

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Nitrobenzene-d5 (S)				90	
2-Fluorobiphenyl (S)				104	
Terphenyl-d14 (S)				94	
Phenol-d6 (S)				83	
2-Fluorophenol (S)				102	
2,4,6-Tribromophenol (S)				106	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83770
Analysis Method: EPA 8260
Associated Pace Samples: 603500802

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603517863
Associated Pace Samples:
603500802

[illegible]ter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.4	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	9.3	20	1
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-[illegible]none	ug/kg	ND	100	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

METHOD BLANK: 603517863
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	97		
Toluene-d8 (S)	%	97		
4-Bromofluorobenzene (S)	%	98		
1,2-Dichloroethane-d4 (S)	%	106		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603501529 603501537

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	273.8	309.1	113	323.1	118	4	
Benzene	ug/kg	0	273.8	277.3	101	293.0	107	5	
Trichloroethene	ug/kg	0	273.8	323.5	118	329.8	120	2	
Toluene	ug/kg	9.445	273.8	289.7	102	270.5	95.4	7	
Chlorobenzene	ug/kg	0	273.8	280.9	103	299.7	110	7	
Dibromofluoromethane (S)					101		97		
Toluene-d8 (S)					102		92		
4-Bromofluorobenzene (S)					100		92		

LABORATORY CONTROL SAMPLE: 603501545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chloromethane	ug/kg	50	48.78	97.6	
Vinyl Chloride	ug/kg	50	49.95	99.9	
Chloroethane	ug/kg	50	50.56	101	
Methylene Chloride	ug/kg	50	47.07	94.1	
1,1-Dichloroethene	ug/kg	50	51.44	103	
trans-1,2-Dichloroethene	ug/kg	50	50.47	101	
cis-1,2-Dichloroethene	ug/kg	50	49.87	99.7	
1,1,1-Trichloroethane	ug/kg	50	50.48	101	
Benzene	ug/kg	50	49.33	98.7	
1,2-Dichloroethane	ug/kg	50	49.52	99.0	
Trichloroethene	ug/kg	50	47.94	95.9	
Toluene	ug/kg	50	49.26	98.5	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603501545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Tetrachloroethene	ug/kg	50	47.50	95.0	
Chlorobenzene	ug/kg	50	49.63	99.3	
1,1,1,2-Tetrachloroethane	ug/kg	50	51.28	103	
Ethylbenzene	ug/kg	50	48.74	97.5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	50	49.90	99.8	
Styrene	ug/kg	50	49.64	99.3	
1,1,2,2-Tetrachloroethane	ug/kg	50	47.65	95.3	
Hexachlorobutadiene	ug/kg	50	46.82	93.6	
Dibromofluoromethane (S)				101	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				99	
1,2-Dichloroethane-d4 (S)				102	

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83821
Analysis Method:
Associated Pace Samples: 603500802

QC Batch Method:
Analysis Description: Percent Moisture

SAMPLE DUPLICATE: 603505975

Parameter	Units	603500802	Dup. Result	RPD	Footnotes
Percent Moisture	%	8.700	12.20	34	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83907
Analysis Method: EPA 7841
Associated Pace Samples: 603500802

QC Batch Method: EPA 3050
Analysis Description: Thallium, AAS Furnace

METHOD BLANK: 603512690
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.472	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603512716 603512724

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.02355	4.337	3.327	76.2	3.103	73.1	4	

LABORATORY CONTROL SAMPLE: 603512708

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.670	3.494	95.2	

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DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83911
Analysis Method: EPA 6010
Associated Pace Samples: 603500802

QC Batch Method: EPA 3050
Analysis Description: Metals-Standard ICP, Soil

METHOD BLANK: 603512856
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Aluminum	mg/kg	ND	6.94	
Antimony	mg/kg	ND	4.63	
Arsenic	mg/kg	ND	7.87	
Barium	mg/kg	ND	0.37	
Beryllium	mg/kg	ND	0.0926	
Cadmium	mg/kg	ND	0.463	
Calcium	mg/kg	ND	9.26	
Chromium	mg/kg	0.697	0.648	2
Cobalt	mg/kg	ND	0.648	
Copper	mg/kg	ND	0.926	
Iron	mg/kg	ND	3.7	
Lead	mg/kg	ND	4.63	
Magnesium	mg/kg	ND	4.63	
Manganese	mg/kg	ND	0.648	
Nickel	mg/kg	ND	2.78	
Potassium	mg/kg	ND	92.6	
Silver	mg/kg	ND	0.648	
Vanadium	mg/kg	ND	1.11	
Zinc	mg/kg	ND	9.26	
Tin	mg/kg	ND	23.1	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603512872 603512880

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	12860	1084	17460	424	16370	343	21	
Antimony	mg/kg	9.579	108.4	57.68	44.4	55.67	45.0	1	
Arsenic	mg/kg	0	108.4	63.75	58.8	64.99	63.5	8	
Barium	mg/kg	177.5	108.4	239.6	57.2	242.5	63.5	10	
Beryllium	mg/kg	0.7017	10.84	10.60	91.3	10.08	91.6	0	
Cadmium	mg/kg	4.603	10.84	13.23	79.5	12.79	80.0	1	
Calcium	mg/kg	68890	1084	67980	-84.2	78600	948	239	3,4
Chromium	mg/kg	23.81	108.4	122.5	91.0	112.6	86.7	5	
Cobalt	mg/kg	8.792	108.4	99.96	84.1	92.92	82.2	2	
Copper	mg/kg	24.45	108.4	119.3	87.4	112.6	86.1	1	
Iron	mg/kg	17970	1084	21250	303	18630	64.4	130	
Lead	mg/kg	32.00	108.4	122.5	83.5	112.6	78.7	6	
Magnesium	mg/kg	5783	1084	7644	172	6765	95.9	57	
Manganese	mg/kg	305.1	108.4	365.4	55.6	541.4	231	122	
Ni	mg/kg	40.93	108.4	133.4	85.2	121.8	79.0	8	
Potassium	mg/kg	2381	1084	4738	217	3950	153	35	
Silver	mg/kg	0	10.84	7.015	64.7	6.795	66.4	3	5,6
Vanadium	mg/kg	37.53	108.4	136.6	91.4	130.0	90.3	1	
Zinc	mg/kg	137.1	108.4	196.2	54.5	195.5	57.0	4	
Tin	mg/kg	2.743	108.4	83.70	74.7	80.03	75.5	1	

LABORATORY CONTROL SAMPLE: 603512864

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	934.6	874.8	93.6	
Antimony	mg/kg	93.46	87.20	93.3	
Arsenic	mg/kg	93.46	80.65	86.3	
Barium	mg/kg	93.46	88.13	94.3	
Beryllium	mg/kg	9.346	9.196	98.4	
Cadmium	mg/kg	9.346	8.234	88.1	
Calcium	mg/kg	934.6	962.6	103	
Chromium	mg/kg	93.46	84.11	90.0	
Cobalt	mg/kg	93.46	87.48	93.6	
Copper	mg/kg	93.46	87.29	93.4	
Iron	mg/kg	934.6	915.9	98.0	
Lead	mg/kg	93.46	83.46	89.3	
Magnesium	mg/kg	934.6	857.9	91.8	
Manganese	mg/kg	93.46	87.20	93.3	
Ni	mg/kg	93.46	86.92	93.0	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603512864

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Potassium	mg/kg	934.6	845.8	90.5	
Silver	mg/kg	9.346	8.458	90.5	
Vanadium	mg/kg	93.46	88.60	94.8	
Zinc	mg/kg	93.46	89.25	95.5	
Tin	mg/kg	93.46	84.02	89.9	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83925
Analysis Method: EPA 8082
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

METHOD BLANK: 603513631
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	74		
Tetrachloro-meta-xylene (S)	%	81		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603513649 603513656

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	65.10	364.6	291.0	61.9	271.6	56.6	9	
Decachlorobiphenyl (S)					57		57		
Tetrachloro-meta-xylene (S)					71		66		

LABORATORY CONTROL SAMPLE: 603513664

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	271.0	81.3	
Decachlorobiphenyl (S)				74	
Tetrachloro-meta-xylene (S)				82	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83987
Analysis Method: EPA 8151
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550
Analysis Description: Chlorinated Herbicides

METHOD BLANK: 603517731
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/kg	7.0	40	1
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	91		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603517749 603517756

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	13.01	364.6	326.6	86.0	312.5	82.0	5	
2,4,5-TP(Silvex)	ug/kg	0	36.46	35.98	98.7	34.56	94.7	4	
Dichlorophenyl Acetic Acid (S)					99		93		

LABORATORY CONTROL SAMPLE: 603517764

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	281.3	84.4	
2,4,5-TP(Silvex)	ug/kg	33.33	33.30	99.9	
Dichlorophenyl Acetic Acid (S)				102	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18131 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84069
Analysis Method: EPA 8081A
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550
Analysis Description: Organochlorine Pesticides, GC

METHOD BLANK: 603520511
Associated Pace Samples:
603500802

ter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	1.8	2	1,7
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	107		
Tetrachloro-meta-xylene (S)	%	117		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603520529 603520537

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	18.25	16.13	88.4	16.09	88.2	0	
Heptachlor	ug/kg	0	18.25	15.72	86.1	15.71	86.1	0	
Decachlorobiphenyl (S)					86		83		
Tetrachloro-meta-xylene (S)					81		83		

LABORATORY CONTROL SAMPLE: 603520545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	20.62	124	
gamma-BHC (Lindane)	ug/kg	16.67	21.54	129	
Heptachlor	ug/kg	16.67	20.29	122	

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QUALITY CONTROL DATA

DATE: 07/28/00

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603520545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Heptachlor Epoxide	ug/kg	16.67	20.71	124	
Decachlorobiphenyl (S)				111	
Tetrachloro-meta-xylene (S)				107	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
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SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84162
Analysis Method: EPA 9010A
Associated Pace Samples: 603500802

QC Batch Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil

METHOD BLANK: 603524265
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603524281 603524299

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0	10.95	7.008	64.0	11.06	101	45	8

LABORATORY CONTROL SAMPLE: 603524273

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	8.400	84.0	

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84173
Analysis Method: EPA 9030A
Associated Pace Samples: 603500802

QC Batch Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil

METHOD BLANK: 603524786
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	5	

MATRIX SPIKE: 603524794

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	39.42	547.5	508.1	85.6	

LABORATORY CONTROL SAMPLE: 603524810

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	500	500.0	100	

SAMPLE DUPLICATE: 603524812

Parameter	Units	603500802	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	39.40	36.00	9	

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84286
Analysis Method: EPA 7196 Modified
Associated Pace Samples: 603500802

QC Batch Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil

METHOD BLANK: 603529637
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603529645

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	0.7118	1.095	1.226	47.0	

LABORATORY CONTROL SAMPLE: 603529660

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	0.9500	95.0	

SAMPLE DUPLICATE: 603529652

Parameter	Units	603500802	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	0.7120	1.220	0	8

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84969
Analysis Method: EPA 7471
Associated Pace Samples: 603500802

QC Batch Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS

METHOD BLANK: 603562216
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603562224 603562232

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.01035	1.825	2.041	111	1.923	105	6	

LABORATORY CONTROL SAMPLE: 603562240

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.400	84.0	

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Pace Project Number: 6041378
Client Project ID: RFI EX1

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[3]	The calculated RPD was outside QC acceptance limits.
[4]	The affected analytes are Ca, Fe, Mg, Mn, K.
[5]	Due to high analyte concentration & non homogeneity of the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch were accepted based on LCS percent recoveries.
[6]	The affected analytes are: Al, As, Ca, Fe, Mg, Mn, K.
[7]	Compound was not confirmed by the second column analysis.
[8]	The calculated RPD was outside QC acceptance limits.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603500802	EX1	EPA 3550 Sonication	83763	EPA 8270	83840
603500802	EX1	EPA 8260	83770		
603500802	EX1		83821		
603500802	EX1	EPA 3050	83907	EPA 7841	84496
603500802	EX1	EPA 3050	83911	EPA 6010	84599
603500802	EX1	EPA 3550	83925	EPA 8082	83979
603500802	EX1	EPA 3550	83987	EPA 8151	84330
603500802	EX1	EPA 3550	84069	EPA 8081A	84327
603500802	EX1	EPA 9010A	84162		
603500802	EX1	EPA 9030A	84173		
603500802	EX1	EPA 7196 Modified	84286		
603500802	EX1	EPA 7471	84969		

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July 27, 2000

Mr. Mick Cossairt
Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

RE: Pace Project Number: 6041974
Client Project ID: ISC RFI

Dear Mr. Cossairt:

Enclosed are the analytical results for sample(s)received by the laboratory on June 9, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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DATE: 07/27/00
PAGE: 1

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Solid results are reported on a dry weight basis

Pace Sample No: 603556606 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
uminum	18400	mg/kg	8.94	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.96	0.96	06/27/00	CAS	7440-36-0	
Arsenic	12.7	mg/kg	10.1	0.96	06/27/00	CAS	7440-38-2	
Barium	255	mg/kg	0.477	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.773	mg/kg	0.119	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0.675	mg/kg	0.596	0.96	06/27/00	CAS	7440-43-9	1
Calcium	2500	mg/kg	11.9	0.96	06/27/00	CAS	7440-70-2	
Chromium	19.1	mg/kg	0.835	0.96	06/27/00	CAS	7440-47-3	
Cobalt	11.8	mg/kg	0.835	0.96	06/27/00	CAS	7440-48-4	1
Copper	24.6	mg/kg	1.19	0.96	06/27/00	CAS	7440-50-8	
Iron	20300	mg/kg	4.77	0.96	06/27/00	CAS	7439-89-6	1
Lead	19.1	mg/kg	5.96	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	3250	mg/kg	5.96	0.96	06/27/00	CAS	7439-95-4	1
Manganese	924	mg/kg	0.835	0.96	06/27/00	CAS	7439-96-5	1
Nickel	23.5	mg/kg	3.58	0.96	06/27/00	CAS	7440-02-0	1
Potassium	2200	mg/kg	119	0.96	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.835	0.96	06/27/00	CAS	7440-22-4	
Vanadium	40.9	mg/kg	1.43	0.96	06/27/00	CAS	7440-62-2	1
Zinc	65.8	mg/kg	11.9	0.96	06/27/00	CAS	7440-66-6	1
Tin	3.27	mg/kg	29.8	0.96	06/27/00	CAS	7440-31-5	1,2
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.191	1.00	06/23/00	SYW	7439-97-6	
lium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556606 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.579	0.94	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.508	mg/kg	0.124	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.24	1.00	06/20/00	JKS	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	19.8	mg/kg	6.2	1.00	06/16/00	JKS		
cs Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.4	%		0.81	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	10.0	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	12	10.0	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	41	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	68	%		0.81	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	46	%		0.81	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	81	1.98	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.81	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.81	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	30	ug/kg	50	1.00	06/19/00	JLO	94-75-7	2
2,4,5-TP(Silvex)	2.6	ug/kg	19	1.00	06/19/00	JLO	93-72-1	2
chlorophenyl Acetic Acid (S)	82	%		0.81	06/19/00	JLO		

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556606 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-00-3	
Methylene Chloride	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-09-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	71-55-6	
Benzene	170	ug/kg	6.2	1.00	06/23/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	79-01-6	
Toluene	740	ug/kg	31	5.00	06/23/00	NLA	108-88-3	4
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/23/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	630-20-6	
Ethylbenzene	270	ug/kg	31	5.00	06/23/00	NLA	100-41-4	4
O-Xylene (1,2-Dimethylbenzene)	2400	ug/kg	31	5.00	06/23/00	NLA	95-47-6	4,5
Styrene	ND	ug/kg	6.2	1.00	06/23/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.2	1.00	06/23/00	NLA	87-68-3	
Acetone	270	ug/kg	25	1.00	06/23/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	12	1.00	06/23/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/23/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/23/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/23/00	NLA	591-78-6	
Xylene (Total)	7000	ug/kg	31	5.00	06/23/00	NLA	1330-20-7	4,5
1,4-Dioxane (P-Dioxane)	ND	ug/kg	62	1.00	06/23/00	NLA	123-91-1	
Dibromofluoromethane (S)	94	%		0.81	06/23/00	NLA	1868-53-7	
Toluene-d8 (S)	76	%		0.81	06/23/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	597	%		0.81	06/23/00	NLA	460-00-4	6
1,2-Dichloroethane-d4 (S)	102	%		0.81	06/23/00	NLA	17060-07-0	

GC/MS Semivolatiles

Volatile Organics | Method: EPA 8270 | Prep Method: EPA 3550 Sonication

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556606 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	4100	9.99	06/27/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	4100	9.99	06/27/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	20000	9.99	06/27/00	WAW	65-85-0	
Naphthalene	7800	ug/kg	4100	9.99	06/27/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	4100	9.99	06/27/00	WAW	87-68-3	
2-Methylnaphthalene	22000	ug/kg	4100	9.99	06/27/00	WAW	91-57-6	
Acenaphthene	1100	ug/kg	4100	9.99	06/27/00	WAW	83-32-9	2
[illegible]benzofuran	860	ug/kg	4100	9.99	06/27/00	WAW	132-64-9	2
[illegible]-Dinitrotoluene	ND	ug/kg	4100	9.99	06/27/00	WAW	121-14-2	
Fluorene	1300	ug/kg	4100	9.99	06/27/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	4100	9.99	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	118-74-1	
Phenanthrene	4000	ug/kg	4100	9.99	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	4100	9.99	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	4100	9.99	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	4100	9.99	06/27/00	WAW	206-44-0	
Pyrene	1000	ug/kg	4100	9.99	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	4100	9.99	06/27/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	4100	9.99	06/27/00	WAW	56-55-3	
Chrysene	ND	ug/kg	4100	9.99	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	1900	ug/kg	4100	9.99	06/27/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	4100	9.99	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	100	%		0.81	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	88	%		0.81	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	88	%		0.81	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	77	%		0.81	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	55	%		0.81	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	84	%		0.81	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	17300	mg/kg	8.85	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.9	0.94	06/27/00	CAS	7440-36-0	
Arsenic	16.2	mg/kg	10	0.94	06/27/00	CAS	7440-38-2	
Barium	281	mg/kg	0.472	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.787	mg/kg	0.118	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0.223	mg/kg	0.59	0.94	06/27/00	CAS	7440-43-9	1,2
Calcium	3760	mg/kg	11.8	0.94	06/27/00	CAS	7440-70-2	
Chromium	19.7	mg/kg	0.826	0.94	06/27/00	CAS	7440-47-3	
Cobalt	12.5	mg/kg	0.826	0.94	06/27/00	CAS	7440-48-4	1
Copper	24.6	mg/kg	1.18	0.94	06/27/00	CAS	7440-50-8	
Iron	23800	mg/kg	4.72	0.94	06/27/00	CAS	7439-89-6	1
Lead	14.3	mg/kg	5.9	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	4520	mg/kg	5.9	0.94	06/27/00	CAS	7439-95-4	1
Manganese	772	mg/kg	0.826	0.94	06/27/00	CAS	7439-96-5	1
Nickel	26.4	mg/kg	3.54	0.94	06/27/00	CAS	7440-02-0	1
Potassium	2110	mg/kg	118	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.826	0.94	06/27/00	CAS	7440-22-4	
Vanadium	44.7	mg/kg	1.42	0.94	06/27/00	CAS	7440-62-2	1
Zinc	72.8	mg/kg	11.8	0.94	06/27/00	CAS	7440-66-6	1
Tin	1.08	mg/kg	29.5	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.194	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.559	0.88	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.568	mg/kg	0.126	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.26	1.00	06/20/00	JKS	57-12-5	

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Client Project ID: ISC RFI

Pace Sample No: 603556614 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	ND	mg/kg	6.31	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.8	%		0.79	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	13	10.0	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	42	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	71	%		0.79	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	63	%		0.79	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	41	1.00	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.79	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	37	%		0.79	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	11	ug/kg	50	1.00	06/20/00	JLO	94-75-7	2
2,4,5-TP(Silvex)	1.2	ug/kg	19	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	75	%		0.79	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-00-3	
Methylene Chloride	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-09-2	
1,1-Dichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX6 BASE | Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	29.6	mg/kg	6.16	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.8	%		0.81	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	24	9.94	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	9.94	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	12	9.94	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	40	9.94	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	83	%		0.81	06/20/00	JLO	2051-24-3	4
Tetrachloro-meta-xylene (S)	61	%		0.81	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	40	0.99	07/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	74	%		0.81	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.81	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	49	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	83	%		0.81	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	31	5.00	06/20/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	31	5.00	06/20/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	75-00-3	
Methylene Chloride	8.5	ug/kg	31	5.00	06/20/00	NLA	75-09-2	1,3
1,1-Dichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	71-55-6	
Benzene	ND	ug/kg	31	5.00	06/20/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	79-01-6	
Toluene	9.2	ug/kg	31	5.00	06/20/00	NLA	108-88-3	1
Tetrachloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	31	5.00	06/20/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	31	5.00	06/20/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	31	5.00	06/20/00	NLA	95-47-6	
Styrene	ND	ug/kg	31	5.00	06/20/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	79-34-5	
achlorobutadiene	ND	ug/kg	31	5.00	06/20/00	NLA	87-68-3	
Acetone	49	ug/kg	120	5.00	06/20/00	NLA	67-64-1	1,3
2-Butanone	ND	ug/kg	62	5.00	06/20/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	62	5.00	06/20/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	62	5.00	06/20/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	620	5.00	06/20/00	NLA	591-78-6	
Xylene (Total)	46	ug/kg	31	5.00	06/20/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	310	5.00	06/20/00	NLA	123-91-1	
Dibromofluoromethane (S)	91	%		0.81	06/20/00	NLA	1868-53-7	
Toluene-d8 (S)	90	%		0.81	06/20/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	98	%		0.81	06/20/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%		0.81	06/20/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	410	1.00	06/28/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	1.00	06/28/00	WAW	65-85-0
' ohthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-20-3
achlorobutadiene	ND	ug/kg	410	1.00	06/28/00	WAW	87-68-3

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	1.00	06/28/00	WAW	121-14-2	
Fluorene	ND	ug/kg	410	1.00	06/28/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	1.00	06/28/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	1.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	85-68-7	
ızo(a)anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	56-55-3	
..rysene	ND	ug/kg	410	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	1.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	65	%		0.81	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.81	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	79	%		0.81	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	69	%		0.81	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	74	%		0.81	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.81	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13200	mg/kg	8.99	0.99	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.99	0.99	06/30/00	JAH	7440-36-0	
Arsenic	10.3	mg/kg	10.2	0.99	06/30/00	JAH	7440-38-2	
Barium	226	mg/kg	0.479	0.99	06/30/00	JAH	7440-39-3	
Beryllium	0.685	mg/kg	0.12	0.99	06/30/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.599	0.99	06/30/00	JAH	7440-43-9	
Calcium	18900	mg/kg	12	0.99	06/30/00	JAH	7440-70-2	
Chromium	13.7	mg/kg	0.839	0.99	06/30/00	JAH	7440-47-3	
Cobalt	8.42	mg/kg	0.839	0.99	06/30/00	JAH	7440-48-4	
per	27.7	mg/kg	1.2	0.99	06/30/00	JAH	7440-50-8	
ıron	16800	mg/kg	4.79	0.99	06/30/00	JAH	7439-89-6	
Lead	19.8	mg/kg	5.99	0.99	06/30/00	JAH	7439-92-1	
Magnesium	2760	mg/kg	5.99	0.99	06/30/00	JAH	7439-95-4	
Manganese	122	mg/kg	0.839	0.99	06/30/00	JAH	7439-96-5	
Nickel	25.6	mg/kg	3.6	0.99	06/30/00	JAH	7440-02-0	
Potassium	1440	mg/kg	120	0.99	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.839	0.99	06/30/00	JAH	7440-22-4	
Vanadium	28.8	mg/kg	1.44	0.99	06/30/00	JAH	7440-62-2	
Zinc	206	mg/kg	12	0.99	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	30	0.99	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.186	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.593	0.98	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.121	mg/kg	0.121	0.10	06/22/00	JKS	18540-29-9	
C· ·ide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
·nide	ND	mg/kg	1.21	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 MIDDLE | Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	24.2	mg/kg	6.05	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	17.4	%		0.83	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	24	9.94	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	9.94	06/20/00	JLO	58-89-9	
[illegible]tachlor	ND	ug/kg	12	9.94	06/20/00	JLO	76-44-8	
[illegible]eptachlor Epoxide	ND	ug/kg	40	9.94	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	84	%		0.83	06/20/00	JLO	2051-24-3	4
Tetrachloro-meta-xylene (S)	26	%		0.83	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	400	9.94	07/02/00	JLO	11096-82-5	5
Decachlorobiphenyl (S)	81	%		0.83	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	86	%		0.83	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	48	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	80	%		0.83	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	12	2.00	06/22/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	12	2.00	06/22/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	75-00-3	
Methylene Chloride	94	ug/kg	12	2.00	06/22/00	NLA	75-09-2	3
[illegible] 1-Dichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	75-35-4	
[illegible]ns-1,2-Dichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	71-55-6	
Benzene	ND	ug/kg	12	2.00	06/22/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	79-01-6	
Toluene	2.4	ug/kg	12	2.00	06/22/00	NLA	108-88-3	1
Tetrachloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	12	2.00	06/22/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	630-20-6	
Ethylbenzene	3.9	ug/kg	12	2.00	06/22/00	NLA	100-41-4	1
O-Xylene (1,2-Dimethylbenzene)	10	ug/kg	12	2.00	06/22/00	NLA	95-47-6	1
Styrene	ND	ug/kg	12	2.00	06/22/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	12	2.00	06/22/00	NLA	87-68-3	
Acetone	210	ug/kg	48	2.00	06/22/00	NLA	67-64-1	3
2-Butanone	40	ug/kg	24	2.00	06/22/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	24	2.00	06/22/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	24	2.00	06/22/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	240	2.00	06/22/00	NLA	591-78-6	
Xylene (Total)	37	ug/kg	12	2.00	06/22/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	120	2.00	06/22/00	NLA	123-91-1	
Dibromofluoromethane (S)	100	%		0.83	06/22/00	NLA	1868-53-7	
Toluene-d8 (S)	100	%		0.83	06/22/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	101	%		0.83	06/22/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%		0.83	06/22/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	400	1.00	06/28/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	1.00	06/28/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	1.00	06/28/00	WAW	65-85-0	
Naphthalene	250	ug/kg	400	1.00	06/28/00	WAW	91-20-3	1
Hexachlorobutadiene	ND	ug/kg	400	1.00	06/28/00	WAW	87-68-3	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	610	ug/kg	400	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	400	1.00	06/28/00	WAW	121-14-2	
Fluorene	120	ug/kg	400	1.00	06/28/00	WAW	86-73-7	1
N-Nitrosodiphenylamine	ND	ug/kg	400	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	410	ug/kg	400	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	1.00	06/28/00	WAW	206-44-0	
Pyrene	120	ug/kg	400	1.00	06/28/00	WAW	129-00-0	1
Butylbenzylphthalate	ND	ug/kg	400	1.00	06/28/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	400	1.00	06/28/00	WAW	56-55-3	
nrysene	ND	ug/kg	400	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	250	ug/kg	400	1.00	06/28/00	WAW	117-81-7	1
3-Methylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	400	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	72	%		0.83	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	76	%		0.83	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	67	%		0.83	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	80	%		0.83	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	79	%		0.83	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.83	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564956 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 BASE | Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13100	mg/kg	8.85	0.94	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.9	0.94	06/30/00	JAH	7440-36-0	
Arsenic	10.3	mg/kg	10	0.94	06/30/00	JAH	7440-38-2	
Barium	238	mg/kg	0.472	0.94	06/30/00	JAH	7440-39-3	
Beryllium	0.688	mg/kg	0.118	0.94	06/30/00	JAH	7440-41-7	
Cadmium	0.113	mg/kg	0.59	0.94	06/30/00	JAH	7440-43-9	1
Calcium	3500	mg/kg	11.8	0.94	06/30/00	JAH	7440-70-2	
Chromium	15.4	mg/kg	0.826	0.94	06/30/00	JAH	7440-47-3	
Cobalt	12.1	mg/kg	0.826	0.94	06/30/00	JAH	7440-48-4	
Copper	24.1	mg/kg	1.18	0.94	06/30/00	JAH	7440-50-8	
Iron	18100	mg/kg	4.72	0.94	06/30/00	JAH	7439-89-6	
Lead	18.8	mg/kg	5.9	0.94	06/30/00	JAH	7439-92-1	
Magnesium	3690	mg/kg	5.9	0.94	06/30/00	JAH	7439-95-4	
Manganese	352	mg/kg	0.826	0.94	06/30/00	JAH	7439-96-5	
Nickel	25.9	mg/kg	3.54	0.94	06/30/00	JAH	7440-02-0	
Potassium	1610	mg/kg	118	0.94	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.826	0.94	06/30/00	JAH	7440-22-4	
Vanadium	33	mg/kg	1.42	0.94	06/30/00	JAH	7440-62-2	
Zinc	110	mg/kg	11.8	0.94	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	29.5	0.94	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.194	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.601	0.95	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.151	mg/kg	0.126	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.26	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	30.3	mg/kg	6.31	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.8	%		0.79	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	9.83	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	9.83	06/20/00	JLO	58-89-9	
tachlor	ND	ug/kg	12	9.83	06/20/00	JLO	76-44-8	
heptachlor Epoxide	ND	ug/kg	41	9.83	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	71	%		0.79	06/20/00	JLO	2051-24-3	6
Tetrachloro-meta-xylene (S)	54	%		0.79	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	410	9.83	07/02/00	JLO	11096-82-5	5
Decachlorobiphenyl (S)	89	%		0.79	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	101	%		0.79	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	50	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	64	%		0.79	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	190	ug/kg	790	125	06/22/00	NLA	74-87-3	1
Vinyl Chloride	ND	ug/kg	790	125	06/22/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	790	125	06/22/00	NLA	75-00-3	
Methylene Chloride	500	ug/kg	790	125	06/22/00	NLA	75-09-2	1,3
1-Dichloroethene	ND	ug/kg	790	125	06/22/00	NLA	75-35-4	
ns-1,2-Dichloroethene	ND	ug/kg	790	125	06/22/00	NLA	156-60-5	

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Client Project ID: ISC-KC RFI

Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	790	125	06/22/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	790	125	06/22/00	NLA	71-55-6	
Benzene	ND	ug/kg	790	125	06/22/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	790	125	06/22/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	790	125	06/22/00	NLA	79-01-6	
Toluene	220	ug/kg	790	125	06/22/00	NLA	108-88-3	1
Tetrachloroethene	ND	ug/kg	790	125	06/22/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	790	125	06/22/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	790	125	06/22/00	NLA	630-20-6	
Ethylbenzene	260	ug/kg	790	125	06/22/00	NLA	100-41-4	1
O-Xylene (1,2-Dimethylbenzene)	900	ug/kg	790	125	06/22/00	NLA	95-47-6	
Styrene	ND	ug/kg	790	125	06/22/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	790	125	06/22/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	790	125	06/22/00	NLA	87-68-3	
Acetone	5000	ug/kg	3200	125	06/22/00	NLA	67-64-1	3
2-Butanone	18000	ug/kg	1600	125	06/22/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	1600	125	06/22/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	1600	125	06/22/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	16000	125	06/22/00	NLA	591-78-6	
Xylene (Total)	3000	ug/kg	790	125	06/22/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	7900	125	06/22/00	NLA	123-91-1	
Dibromofluoromethane (S)	98	%		0.79	06/22/00	NLA	1868-53-7	
Toluene-d8 (S)	99	%		0.79	06/22/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	102	%		0.79	06/22/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%		0.79	06/22/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	2100	5.00	06/28/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	2100	5.00	06/28/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	10000	5.00	06/28/00	WAW	65-85-0
Naphthalene	6900	ug/kg	2100	5.00	06/28/00	WAW	91-20-3
Hexachlorobutadiene	ND	ug/kg	2100	5.00	06/28/00	WAW	87-68-3

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	3200	ug/kg	2100	5.00	06/28/00	WAW	91-57-6	
Acenaphthene	1500	ug/kg	2100	5.00	06/28/00	WAW	83-32-9	1
Dibenzofuran	1100	ug/kg	2100	5.00	06/28/00	WAW	132-64-9	1
2,4-Dinitrotoluene	ND	ug/kg	2100	5.00	06/28/00	WAW	121-14-2	
Fluorene	1300	ug/kg	2100	5.00	06/28/00	WAW	86-73-7	1
N-Nitrosodiphenylamine	ND	ug/kg	2100	5.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	118-74-1	
Phenanthrene	5900	ug/kg	2100	5.00	06/28/00	WAW	85-01-8	
Anthracene	980	ug/kg	2100	5.00	06/28/00	WAW	120-12-7	1
Di-n-butylphthalate	ND	ug/kg	2100	5.00	06/28/00	WAW	84-74-2	
Fluoranthene	3100	ug/kg	2100	5.00	06/28/00	WAW	206-44-0	
Pyrene	2600	ug/kg	2100	5.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	2100	5.00	06/28/00	WAW	85-68-7	
ızo(a)anthracene	660	ug/kg	2100	5.00	06/28/00	WAW	56-55-3	1,3
ınrysene	570	ug/kg	2100	5.00	06/28/00	WAW	218-01-9	1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	2100	5.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	2100	5.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	81	%		0.79	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	86	%		0.79	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	93	%		0.79	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	87	%		0.79	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	94	%		0.79	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	84	%		0.79	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 MIDDLE | Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	15600	mg/kg	8.39	0.94	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.59	0.94	06/30/00	JAH	7440-36-0	
Arsenic	11	mg/kg	9.5	0.94	06/30/00	JAH	7440-38-2	
Barium	249	mg/kg	0.447	0.94	06/30/00	JAH	7440-39-3	
Beryllium	0.727	mg/kg	0.112	0.94	06/30/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.559	0.94	06/30/00	JAH	7440-43-9	
Calcium	2440	mg/kg	11.2	0.94	06/30/00	JAH	7440-70-2	
Chromium	15.8	mg/kg	0.783	0.94	06/30/00	JAH	7440-47-3	
Cobalt	11	mg/kg	0.783	0.94	06/30/00	JAH	7440-48-4	
Copper	17.4	mg/kg	1.12	0.94	06/30/00	JAH	7440-50-8	
Iron	20000	mg/kg	4.47	0.94	06/30/00	JAH	7439-89-6	
Lead	12	mg/kg	5.59	0.94	06/30/00	JAH	7439-92-1	
Magnesium	3260	mg/kg	5.59	0.94	06/30/00	JAH	7439-95-4	
Manganese	837	mg/kg	0.783	0.94	06/30/00	JAH	7439-96-5	
Nickel	21.9	mg/kg	3.35	0.94	06/30/00	JAH	7440-02-0	
Potassium	1650	mg/kg	112	0.94	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.783	0.94	06/30/00	JAH	7440-22-4	
Vanadium	33.5	mg/kg	1.34	0.94	06/30/00	JAH	7440-62-2	
Zinc	57.7	mg/kg	11.2	0.94	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	28	0.94	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.184	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.554	0.93	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.299	mg/kg	0.12	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.2	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	33.5	mg/kg	5.98	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	16.4	%		0.84	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	7.8	ug/kg	2.3	0.99	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	0.99	06/20/00	JLO	58-89-9	
[illegible]tachlor	ND	ug/kg	1.2	0.99	06/20/00	JLO	76-44-8	
[illegible]eptachlor Epoxide	ND	ug/kg	3.9	0.99	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	79	%		0.84	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	46	%		0.84	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	39	0.99	07/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	79	%		0.84	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	76	%		0.84	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	48	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	65	%		0.84	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6	1.00	06/20/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6	1.00	06/20/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	75-00-3	
Methylene Chloride	1.9	ug/kg	6	1.00	06/20/00	NLA	75-09-2	1,3
[illegible] 1-Dichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	75-35-4	
[illegible]ns-1,2-Dichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 MIDDLE | Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	71-55-6	
Benzene	3.7	ug/kg	6	1.00	06/20/00	NLA	71-43-2	1
1,2-Dichloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	79-01-6	
Toluene	ND	ug/kg	6	1.00	06/20/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6	1.00	06/20/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6	1.00	06/20/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6	1.00	06/20/00	NLA	95-47-6	
Styrene	ND	ug/kg	6	1.00	06/20/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	79-34-5	
‹achlorobutadiene	ND	ug/kg	6	1.00	06/20/00	NLA	87-68-3	
ʌcetone	24	ug/kg	24	1.00	06/20/00	NLA	67-64-1	3
2-Butanone	ND	ug/kg	12	1.00	06/20/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/20/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/20/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/20/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	6	1.00	06/20/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	60	1.00	06/20/00	NLA	123-91-1	
Dibromofluoromethane (S)	86	%		0.84	06/20/00	NLA	1868-53-7	
Toluene-d8 (S)	90	%		0.84	06/20/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	92	%		0.84	06/20/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.84	06/20/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	390	1.00	06/28/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	390	1.00	06/28/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	1900	1.00	06/28/00	WAW	65-85-0
‘‘ohthalene	ND	ug/kg	390	1.00	06/28/00	WAW	91-20-3
.xachlorobutadiene	ND	ug/kg	390	1.00	06/28/00	WAW	87-68-3

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	390	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	390	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	390	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	390	1.00	06/28/00	WAW	121-14-2	
Fluorene	ND	ug/kg	390	1.00	06/28/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	390	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	390	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	390	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	390	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	390	1.00	06/28/00	WAW	206-44-0	
Pyrene	ND	ug/kg	390	1.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	390	1.00	06/28/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	390	1.00	06/28/00	WAW	56-55-3	
Chrysene	ND	ug/kg	390	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	390	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	63	%		0.84	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	66	%		0.84	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	89	%		0.84	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	72	%		0.84	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	64	%		0.84	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	71	%		0.84	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	This analysis had low internal standard area recoveries. The sample was reanalyzed with similar results.
[3]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[4]	The sample was diluted due to the presence of high levels of non_target analytes.
[5]	Elevated quantitation limits resulting from matrix interference.
[6]	The sample was diluted due to the presence of high levels of non_target analytes.

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85117
QC Batch Method: EPA 3550
Analysis Method: EPA 8081A
Analysis Description: Organochlorine Pesticides, GC
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603568528
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	66		
Tetrachloro-meta-xylene (S)	%	68		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603568536 603568544

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	20.65	15.09	73.1	15.67	76.8	5	
Heptachlor	ug/kg	0.2939	20.65	14.97	71.1	15.43	74.2	4	
Decachlorobiphenyl (S)					76		83		
Tetrachloro-meta-xylene (S)					61		63		

LABORATORY CONTROL SAMPLE: 603568551

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	14.70	88.2	
gamma-BHC (Lindane)	ug/kg	16.67	14.48	86.9	
Heptachlor	ug/kg	16.67	14.05	84.3	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603568551

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Heptachlor Epoxide	ug/kg	16.67	14.57	87.4	
Decachlorobiphenyl (S)				83	
Tetrachloro-meta-xylene (S)				79	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85118
QC Batch Method: EPA 3550
Analysis Method: EPA 8082
Analysis Description: PCBs in Soil by 8082
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603568569
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

ter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	82		
Tetrachloro-meta-xylene (S)	%	82		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603569013 603569021

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	0	411	268.4	65.3	277.9	67.8	4	
Decachlorobiphenyl (S)					76		76		
Tetrachloro-meta-xylene (S)					88		73		

LABORATORY CONTROL SAMPLE: 603568593

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	272.6	81.8	
Decachlorobiphenyl (S)				83	
Tetrachloro-meta-xylene (S)				84	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85182
Analysis Method: EPA 8260
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603600701
Associated Pace Samples:
603564949 603564956

ter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	2.7	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	19	20	1
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
none	ug/kg	ND	100	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

METHOD BLANK: 603600701
Associated Pace Samples:
603564949 603564956

Parameter	Units	Method Blank Result	PRL	Footnotes
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	99		
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	98		
1,2-Dichloroethane-d4 (S)	%	116		

METHOD BLANK: 603600719
Associated Pace Samples:
603564923 603564931 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	2.8	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	6.4	20	1
2-[illegible]anone	ug/kg	ND	10	
4[illegible]yl-2-Pentanone	ug/kg	ND	10	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

METHOD BLANK: 603600719
Associated Pace Samples:
603564923 603564931 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	85		
Toluene-d8 (S)	%	93		
4-Bromofluorobenzene (S)	%	92		
1,2-Dichloroethane-d4 (S)	%	102		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603596180 603596198

ter	Units	603565557	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	50	50.95	102	52.39	105	3	
Benzene	ug/kg	0	50	55.89	112	56.24	112	1	
Trichloroethene	ug/kg	0	50	57.62	115	57.20	114	1	
Toluene	ug/kg	0	50	55.43	111	54.59	109	2	
Chlorobenzene	ug/kg	0	50	56.88	114	57.85	116	2	
Dibromofluoromethane (S)					80		79		
Toluene-d8 (S)					98		96		
4-Bromofluorobenzene (S)					95		94		

LABORATORY CONTROL SAMPLE: 603570912

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chloromethane	ug/kg	50	53.17	106	
Vinyl Chloride	ug/kg	50	50.41	101	
Chloroethane	ug/kg	50	46.45	92.9	
Methylene Chloride	ug/kg	50	45.18	90.4	
1,1-Dichloroethene	ug/kg	50	54.30	109	
trans-1,2-Dichloroethene	ug/kg	50	53.98	108	
cis-1,2-Dichloroethene	ug/kg	50	53.28	107	
1,1,1-Trichloroethane	ug/kg	50	49.58	99.2	
Benzene	ug/kg	50	53.85	108	
1 chloroethane	ug/kg	50	54.77	110	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603570912

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Trichloroethene	ug/kg	50	51.67	103	
Toluene	ug/kg	50	53.27	107	
Tetrachloroethene	ug/kg	50	51.08	102	
Chlorobenzene	ug/kg	50	55.51	111	
1,1,1,2-Tetrachloroethane	ug/kg	50	51.82	104	
Ethylbenzene	ug/kg	50	56.66	113	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	50	56.24	112	
Styrene	ug/kg	50	54.01	108	
1,1,2,2-Tetrachloroethane	ug/kg	50	63.53	127	
Hexachlorobutadiene	ug/kg	50	47.67	95.3	
Dibromofluoromethane (S)				88	
Toluene-d8 (S)				96	
4-Bromofluorobenzene (S)				99	
1,2-Dichloroethane-d4 (S)				100	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85206
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

SAMPLE DUPLICATE: 603572389

Parameter	Units	603564923	Dup. Result	RPD	Footnotes
Percent Moisture	%	19.40	19.80	2	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85224
QC Batch Method: EPA 9030A
Analysis Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603573155
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	5	

MATRIX SPIKE: 603573163

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	19.84	620.1	585.3	91.2	

LABORATORY CONTROL SAMPLE: 603573189

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	500	485.0	97.0	

SAMPLE DUPLICATE: 603573171

Parameter	Units	603564923	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	19.80	16.00	21	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85402
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: Metals-Standard ICP, Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603581406
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

ter	Units	Method Blank Result	PRL	Footnotes
Aluminum	mg/kg	ND	7.43	
Antimony	mg/kg	ND	4.95	
Arsenic	mg/kg	ND	8.42	
Barium	mg/kg	ND	0.396	
Beryllium	mg/kg	ND	0.099	
Cadmium	mg/kg	ND	0.495	
Calcium	mg/kg	ND	9.9	
Chromium	mg/kg	ND	0.693	
Cobalt	mg/kg	ND	0.693	
Copper	mg/kg	ND	0.99	
Iron	mg/kg	ND	3.96	
Lead	mg/kg	ND	4.95	
Magnesium	mg/kg	ND	4.95	
Manganese	mg/kg	ND	0.693	
Nickel	mg/kg	ND	2.97	
Potassium	mg/kg	ND	99	
Silver	mg/kg	ND	0.693	
Vanadium	mg/kg	ND	1.19	
Zinc	mg/kg	ND	9.9	
Tin	mg/kg	ND	24.8	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581422 603581430

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	10230	1216	14630	362	15800	467	25	2
Antimony	mg/kg	0	121.6	30.41	25.0	30.24	25.4	2	
Arsenic	mg/kg	8.028	121.6	122.6	94.2	125.9	98.8	5	
Barium	mg/kg	125.8	121.6	190.2	53.0	217.4	76.9	37	3
Beryllium	mg/kg	0.9827	12.16	13.01	98.9	12.74	98.6	0	
Cadmium	mg/kg	0.005971	12.16	10.67	87.7	10.70	89.7	2	
Calcium	mg/kg	27280	1216	29980	222	30730	289	26	2
Chromium	mg/kg	15.83	121.6	136.9	99.6	135.7	100	1	
Cobalt	mg/kg	14.42	121.6	130.6	95.5	129.1	96.2	1	
Copper	mg/kg	31.52	121.6	144.2	92.7	154.7	103	11	
Iron	mg/kg	15840	1216	15190	-53.5	20880	423	258	2,3
Lead	mg/kg	8.377	121.6	120.7	92.4	122.1	95.3	3	
Magnesium	mg/kg	5303	1216	7144	151	6983	141	7	2
Manganese	mg/kg	208.6	121.6	336.4	105	382.1	146	32	3
[illegible]	mg/kg	37.46	121.6	154.5	96.2	156.8	100	4	
[illegible]ium	mg/kg	2567	1216	4627	170	4915	197	15	2
Silver	mg/kg	0	12.16	9.648	79.4	8.801	73.8	7	
Vanadium	mg/kg	7.594	121.6	118.4	91.2	117.9	92.5	1	
Zinc	mg/kg	24.77	121.6	127.9	84.8	128.4	86.9	2	
Tin	mg/kg	0	121.6	103.8	85.3	1008	845	163	

LABORATORY CONTROL SAMPLE: 603581414

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	990.1	946.5	95.6	
Antimony	mg/kg	99.01	94.23	95.2	
Arsenic	mg/kg	99.01	94.11	95.1	
Barium	mg/kg	99.01	100.3	101	
Beryllium	mg/kg	9.901	9.940	100	
Cadmium	mg/kg	9.901	9.329	94.2	
Calcium	mg/kg	990.1	984.3	99.4	
Chromium	mg/kg	99.01	98.97	100	
Cobalt	mg/kg	99.01	98.96	100	
Copper	mg/kg	99.01	106.6	108	
Iron	mg/kg	990.1	996.3	101	
Lead	mg/kg	99.01	97.53	98.5	
Magnesium	mg/kg	990.1	952.2	96.2	
Manganese	mg/kg	99.01	99.08	100	
[illegible]	mg/kg	99.01	99.64	101	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603581414

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Potassium	mg/kg	990.1	969.2	97.9	
Silver	mg/kg	9.901	8.983	90.7	
Vanadium	mg/kg	99.01	98.73	99.7	
Zinc	mg/kg	99.01	90.80	91.7	
Tin	mg/kg	99.01	94.28	95.2	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85404
QC Batch Method: EPA 3050
Analysis Method: EPA 7841
Analysis Description: Thallium, AAS Furnace
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603581489
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581497 603581505

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.09830	4.770	4.148	84.9	4.376	92.3	8	

LABORATORY CONTROL SAMPLE: 603581513

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.922	3.668	93.5	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85408
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603581612
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581638 603581646

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.01691	2.067	2.035	97.6	2.056	98.6	1	

LABORATORY CONTROL SAMPLE: 603581620

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.626	97.6	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85435
QC Batch Method: EPA 9010A
Analysis Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603582495
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603582503 603582511

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0.2480	12.4	12.53	99.0	11.78	93.0	6	

LABORATORY CONTROL SAMPLE: 603582529

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	9.600	96.0	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85460
QC Batch Method: EPA 3550
Analysis Method: EPA 8151
Analysis Description: Chlorinated Herbicides
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603583675
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/kg	ND	40	
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	61		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603583691 603583709

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	3.294	411.2	197.1	47.1	156.5	37.2	23	4
2,4,5-TP(Silvex)	ug/kg	0	41.12	29.44	71.6	27.97	67.8	5	
Dichlorophenyl Acetic Acid (S)					79		84		

LABORATORY CONTROL SAMPLE: 603583683

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	198.8	59.6	
2,4,5-TP(Silvex)	ug/kg	33.33	28.02	84.1	
Dichlorophenyl Acetic Acid (S)				90	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85499
QC Batch Method: EPA 7196 Modified
Analysis Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603586132
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603586140

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	0.2108	1.240	1.153	76.0	

LABORATORY CONTROL SAMPLE: 603586165

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	1.010	101	

SAMPLE DUPLICATE: 603586157

Parameter	Units	603564923	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	0.2110	ND	NC	5

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85593
QC Batch Method: EPA 3550 Sonication
Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603590373
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Phenanthrene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
B a)anthracene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

METHOD BLANK: 603590373
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	67		
2-Fluorobiphenyl (S)	%	71		
Terphenyl-d14 (S)	%	79		
Phenol-d6 (S)	%	73		
2-Fluorophenol (S)	%	66		
2,4,6-Tribromophenol (S)	%	70		

SPIKE & MATRIX SPIKE DUPLICATE: 603590381 603590399

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	3100	2004	64.6	1772	57.2	12	
1,4-Dichlorobenzene	ug/kg	0	2067	1270	61.4	1190	57.6	6	
Acenaphthene	ug/kg	0	2067	1339	64.8	1398	67.7	4	
2,4-Dinitrotoluene	ug/kg	0	2067	1424	68.9	1497	72.4	5	
Pyrene	ug/kg	0	2067	1949	94.3	1951	94.4	0	
Nitrobenzene-d5 (S)					69		67		
2-Fluorobiphenyl (S)					68		66		
Terphenyl-d14 (S)					86		80		
Phenol-d6 (S)					77		72		
2-Fluorophenol (S)					80		69		
2,4,6-Tribromophenol (S)					70		75		

LABORATORY CONTROL SAMPLE: 603590407

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1438	57.5	
1,4-Dichlorobenzene	ug/kg	1667	984.1	59.0	
Acenaphthene	ug/kg	1667	1132	67.9	
2,4-Dinitrotoluene	ug/kg	1667	1176	70.6	
P	ug/kg	1667	1520	91.2	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603590407

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Nitrobenzene-d5 (S)				67	
2-Fluorobiphenyl (S)				75	
Terphenyl-d14 (S)				85	
Phenol-d6 (S)				72	
2-Fluorophenol (S)				79	
2,4,6-Tribromophenol (S)				72	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	Due to high analyte concentration and noted non -homogeneity of the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch accepted based on LCS percent recoveries.
[3]	The calculated RPD was outside QC acceptance limits.
[4]	The calculated RPD was outside QC acceptance limits.
[5]	RPD outlier due to turbidity of sample.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603564923	EX4	EPA 3550	85117	EPA 8081A	85322
603564931	EX6 BASE	EPA 3550	85117	EPA 8081A	85322
603564949	EX12 MIDDLE	EPA 3550	85117	EPA 8081A	85322
603564956	EX12 BASE	EPA 3550	85117	EPA 8081A	85322
603564964	EX14 MIDDLE	EPA 3550	85117	EPA 8081A	85322
603564923	EX4	EPA 3550	85118	EPA 8082	85332
603564931	EX6 BASE	EPA 3550	85118	EPA 8082	85332
603564949	EX12 MIDDLE	EPA 3550	85118	EPA 8082	85332
603564956	EX12 BASE	EPA 3550	85118	EPA 8082	85332
603564964	EX14 MIDDLE	EPA 3550	85118	EPA 8082	85332
603564923	EX4	EPA 8260	85182		
603564931	EX6 BASE	EPA 8260	85182		
603564949	EX12 MIDDLE	EPA 8260	85182		
603564956	EX12 BASE	EPA 8260	85182		
603564964	EX14 MIDDLE	EPA 8260	85182		
603564923	EX4		85206		
603564931	EX6 BASE		85206		
603564949	EX12 MIDDLE		85206		
603564956	EX12 BASE		85206		
603564964	EX14 MIDDLE		85206		
603564923	EX4	EPA 9030A	85224		
603564931	EX6 BASE	EPA 9030A	85224		
603564949	EX12 MIDDLE	EPA 9030A	85224		
603564956	EX12 BASE	EPA 9030A	85224		
603564964	EX14 MIDDLE	EPA 9030A	85224		
603564923	EX4	EPA 3050	85402	EPA 6010	85963

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603564931	EX6 BASE	EPA 3050	85402	EPA 6010	85963
603564949	EX12 MIDDLE	EPA 3050	85402	EPA 6010	85963
603564956	EX12 BASE	EPA 3050	85402	EPA 6010	85963
603564964	EX14 MIDDLE	EPA 3050	85402	EPA 6010	85963
603564923	EX4	EPA 3050	85404	EPA 7841	85772
603564931	EX6 BASE	EPA 3050	85404	EPA 7841	85772
603564949	EX12 MIDDLE	EPA 3050	85404	EPA 7841	85772
603564956	EX12 BASE	EPA 3050	85404	EPA 7841	85772
603564964	EX14 MIDDLE	EPA 3050	85404	EPA 7841	85772
603564923	EX4	EPA 7471	85408		
603564931	EX6 BASE	EPA 7471	85408		
603564949	EX12 MIDDLE	EPA 7471	85408		
603564956	EX12 BASE	EPA 7471	85408		
603564964	EX14 MIDDLE	EPA 7471	85408		
603564923	EX4	EPA 9010A	85435		
603564931	EX6 BASE	EPA 9010A	85435		
603564949	EX12 MIDDLE	EPA 9010A	85435		
603564956	EX12 BASE	EPA 9010A	85435		
603564964	EX14 MIDDLE	EPA 9010A	85435		
603564923	EX4	EPA 3550	85460	EPA 8151	85638
603564931	EX6 BASE	EPA 3550	85460	EPA 8151	85638
603564949	EX12 MIDDLE	EPA 3550	85460	EPA 8151	85638
603564956	EX12 BASE	EPA 3550	85460	EPA 8151	85638
603564964	EX14 MIDDLE	EPA 3550	85460	EPA 8151	85638
603564923	EX4	EPA 7196 Modified	85499		
603564931	EX6 BASE	EPA 7196 Modified	85499		
603564949	EX12 MIDDLE	EPA 7196 Modified	85499		
603564956	EX12 BASE	EPA 7196 Modified	85499		
603564964	EX14 MIDDLE	EPA 7196 Modified	85499		
603564923	EX4	EPA 3550 Sonication	85593	EPA 8270	85981
603564931	EX6 BASE	EPA 3550 Sonication	85593	EPA 8270	85981
603564949	EX12 MIDDLE	EPA 3550 Sonication	85593	EPA 8270	85981
603564956	EX12 BASE	EPA 3550 Sonication	85593	EPA 8270	85981
603564964	EX14 MIDDLE	EPA 3550 Sonication	85593	EPA 8270	85981

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July 27, 2000

Mr. Mick Cossairt
Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

RE: Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Dear Mr. Cossairt:

Enclosed are the analytical results for sample(s)received by the laboratory on June 13, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 07/27/00
PAGE: 1

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Solid results are reported on a dry weight basis

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
ls-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
luminum	10200	mg/kg	8.61	0.93	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.74	0.93	06/30/00	JAH	7440-36-0	
Arsenic	8.03	mg/kg	9.76	0.93	06/30/00	JAH	7440-38-2	1
Barium	126	mg/kg	0.459	0.93	06/30/00	JAH	7440-39-3	
Beryllium	0.983	mg/kg	0.115	0.93	06/30/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.574	0.93	06/30/00	JAH	7440-43-9	
Calcium	27300	mg/kg	11.5	0.93	06/30/00	JAH	7440-70-2	
Chromium	15.8	mg/kg	0.804	0.93	06/30/00	JAH	7440-47-3	
Cobalt	14.4	mg/kg	0.804	0.93	06/30/00	JAH	7440-48-4	
Copper	31.5	mg/kg	1.15	0.93	06/30/00	JAH	7440-50-8	
Iron	15800	mg/kg	4.59	0.93	06/30/00	JAH	7439-89-6	
Lead	8.38	mg/kg	5.74	0.93	06/30/00	JAH	7439-92-1	
Magnesium	5300	mg/kg	5.74	0.93	06/30/00	JAH	7439-95-4	
Manganese	209	mg/kg	0.804	0.93	06/30/00	JAH	7439-96-5	
Nickel	37.5	mg/kg	3.44	0.93	06/30/00	JAH	7440-02-0	
Potassium	2570	mg/kg	115	0.93	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.804	0.93	06/30/00	JAH	7440-22-4	
Vanadium	7.59	mg/kg	1.38	0.93	06/30/00	JAH	7440-62-2	
Zinc	24.8	mg/kg	11.5	0.93	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	28.7	0.93	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.191	1.00	06/23/00	SYW	7439-97-6	
lium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.579	0.94	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.211	mg/kg	0.124	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.24	1.00	06/20/00	JKS	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	19.8	mg/kg	6.2	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.4	%		0.81	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.4	0.99	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	0.99	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	0.99	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4	0.99	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.81	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	67	%		0.81	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	40	0.99	07/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	79	%		0.81	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	75	%		0.81	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	50	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/24/00	JLO	93-72-1	
chlorophenyl Acetic Acid (S)	54	%		0.81	06/24/00	JLO		

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	74-87-3	2
Vinyl Chloride	ND	ug/kg	6.2	1.00	06/20/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	75-00-3	
Methylene Chloride	6.2	ug/kg	6.2	1.00	06/20/00	NLA	75-09-2	3
1,1-Dichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	71-55-6	
nzene	ND	ug/kg	6.2	1.00	06/20/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.2	1.00	06/20/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/20/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6.2	1.00	06/20/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6.2	1.00	06/20/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.2	1.00	06/20/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.2	1.00	06/20/00	NLA	87-68-3	
Acetone	50	ug/kg	25	1.00	06/20/00	NLA	67-64-1	3
2-Butanone	ND	ug/kg	12	1.00	06/20/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/20/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/20/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/20/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	6.2	1.00	06/20/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	62	1.00	06/20/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.81	06/20/00	NLA	1868-53-7	
Toluene-d8 (S)	86	%		0.81	06/20/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	80	%		0.81	06/20/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%		0.81	06/20/00	NLA	17060-07-0	

GC/MS Semivolatiles

volatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	1.00	06/28/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	1.00	06/28/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	1.00	06/28/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	1.00	06/28/00	WAW	83-32-9	
Benzofuran	ND	ug/kg	410	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	1.00	06/28/00	WAW	121-14-2	
Fluorene	ND	ug/kg	410	1.00	06/28/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	1.00	06/28/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	1.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	1.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	62	%		0.81	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	64	%		0.81	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	82	%		0.81	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	68	%		0.81	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	74	%		0.81	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	63	%		0.81	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	12400	mg/kg	8.8	0.95	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.87	0.95	06/30/00	JAH	7440-36-0	
Arsenic	9.77	mg/kg	9.98	0.95	06/30/00	JAH	7440-38-2	1
Barium	226	mg/kg	0.469	0.95	06/30/00	JAH	7440-39-3	
Beryllium	0.622	mg/kg	0.117	0.95	06/30/00	JAH	7440-41-7	
Cadmium	0.231	mg/kg	0.587	0.95	06/30/00	JAH	7440-43-9	1
Calcium	3080	mg/kg	11.7	0.95	06/30/00	JAH	7440-70-2	
Chromium	13.6	mg/kg	0.822	0.95	06/30/00	JAH	7440-47-3	
Cobalt	11.3	mg/kg	0.822	0.95	06/30/00	JAH	7440-48-4	
Copper	27.3	mg/kg	1.17	0.95	06/30/00	JAH	7440-50-8	
Iron	19800	mg/kg	4.69	0.95	06/30/00	JAH	7439-89-6	
Lead	20	mg/kg	5.87	0.95	06/30/00	JAH	7439-92-1	
Magnesium	3400	mg/kg	5.87	0.95	06/30/00	JAH	7439-95-4	
Manganese	498	mg/kg	0.822	0.95	06/30/00	JAH	7439-96-5	
Nickel	24.1	mg/kg	3.52	0.95	06/30/00	JAH	7440-02-0	
Potassium	1310	mg/kg	117	0.95	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.822	0.95	06/30/00	JAH	7440-22-4	
Vanadium	28.1	mg/kg	1.41	0.95	06/30/00	JAH	7440-62-2	
Zinc	68.4	mg/kg	11.7	0.95	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	29.3	0.95	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.19	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.592	0.96	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.148	mg/kg	0.123	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.23	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	71-55-6	
Benzene	15	ug/kg	6.3	1.00	06/23/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	79-01-6	
Toluene	11	ug/kg	6.3	1.00	06/23/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.3	1.00	06/23/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	630-20-6	
Ethylbenzene	100	ug/kg	6.3	1.00	06/23/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	40	ug/kg	6.3	1.00	06/23/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.3	1.00	06/23/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.3	1.00	06/23/00	NLA	87-68-3	
Acetone	470	ug/kg	25	1.00	06/23/00	NLA	67-64-1	1
2-Butanone	30	ug/kg	13	1.00	06/23/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/23/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/23/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/23/00	NLA	591-78-6	
Xylene (Total)	120	ug/kg	6.3	1.00	06/23/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	63	1.00	06/23/00	NLA	123-91-1	
Dibromofluoromethane (S)	100	%		0.79	06/23/00	NLA	1868-53-7	
Toluene-d8 (S)	88	%		0.79	06/23/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	79	%		0.79	06/23/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%		0.79	06/23/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	4100	9.93	06/27/00	MSR	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	95-50-1	
2-Methylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	95-48-7	
4-Methylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	106-44-5	
Hexachloroethane	ND	ug/kg	4100	9.93	06/27/00	MSR	67-72-1	
Nitrobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	105-67-9	
Benzoic Acid	ND	ug/kg	20000	9.93	06/27/00	MSR	65-85-0	
Naphthalene	2600	ug/kg	4100	9.93	06/27/00	MSR	91-20-3	2
Hexachlorobutadiene	ND	ug/kg	4100	9.93	06/27/00	MSR	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	12000	ug/kg	4100	9.93	06/27/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	4100	9.93	06/27/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	4100	9.93	06/27/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	4100	9.93	06/27/00	MSR	121-14-2	
Fluorene	1100	ug/kg	4100	9.93	06/27/00	MSR	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	4100	9.93	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	118-74-1	
Phenanthrene	2600	ug/kg	4100	9.93	06/27/00	MSR	85-01-8	2
Anthracene	ND	ug/kg	4100	9.93	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	ND	ug/kg	4100	9.93	06/27/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	4100	9.93	06/27/00	MSR	206-44-0	
Pyrene	ND	ug/kg	4100	9.93	06/27/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	4100	9.93	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	4100	9.93	06/27/00	MSR	56-55-3	
ysene	ND	ug/kg	4100	9.93	06/27/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4100	9.93	06/27/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	4100	9.93	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	84	%		0.79	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.79	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	78	%		0.79	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	72	%		0.79	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	70	%		0.79	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	76	%		0.79	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	3480	mg/kg	7.21	0.95	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.81	0.95	06/27/00	CAS	7440-36-0	
Arsenic	7.48	mg/kg	8.18	0.95	06/27/00	CAS	7440-38-2	2
Barium	74.7	mg/kg	0.385	0.95	06/27/00	CAS	7440-39-3	1
Beryllium	0.219	mg/kg	0.0962	0.95	06/27/00	CAS	7440-41-7	
Cadmium	0.582	mg/kg	0.481	0.95	06/27/00	CAS	7440-43-9	1
Calcium	300000	mg/kg	9620	952	06/27/00	CAS	7440-70-2	7
Chromium	11.9	mg/kg	0.673	0.95	06/27/00	CAS	7440-47-3	
Cobalt	3.22	mg/kg	0.673	0.95	06/27/00	CAS	7440-48-4	1
Copper	17.2	mg/kg	0.962	0.95	06/27/00	CAS	7440-50-8	
Iron	6560	mg/kg	3.85	0.95	06/27/00	CAS	7439-89-6	1
Lead	54.8	mg/kg	4.81	0.95	06/27/00	CAS	7439-92-1	1
Magnesium	4580	mg/kg	4.81	0.95	06/27/00	CAS	7439-95-4	1
Manganese	336	mg/kg	0.673	0.95	06/27/00	CAS	7439-96-5	1
Nickel	10.5	mg/kg	2.89	0.95	06/27/00	CAS	7440-02-0	1
Potassium	1020	mg/kg	96.2	0.95	06/27/00	CAS	7440-09-7	1
Silver	0.19	mg/kg	0.673	0.95	06/27/00	CAS	7440-22-4	2
Vanadium	8.71	mg/kg	1.15	0.95	06/27/00	CAS	7440-62-2	1
Zinc	57.3	mg/kg	9.62	0.95	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24	0.95	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.156	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.463	0.92	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	ND	mg/kg	0.101	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.01	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.2	mg/kg	5.05	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	1.0	%		0.99	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	13	ug/kg	13	10.0	06/20/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	10	10.0	06/20/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	33	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	74	%		0.99	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	54	%		0.99	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	170	4.96	06/15/00	JLO	11096-82-5	8
Decachlorobiphenyl (S)	45	%		0.99	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	53	%		0.99	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	40	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	3.4	ug/kg	15	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	64	%		0.99	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5	1.00	06/30/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5	1.00	06/30/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	75-00-3	
Methylene Chloride	150	ug/kg	5	1.00	06/30/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	71-55-6	
Benzene	ND	ug/kg	5	1.00	06/30/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	79-01-6	
Toluene	ND	ug/kg	5	1.00	06/30/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5	1.00	06/30/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5	1.00	06/30/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	6.8	ug/kg	5	1.00	06/30/00	NLA	95-47-6	
Styrene	ND	ug/kg	5	1.00	06/30/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	5	1.00	06/30/00	NLA	87-68-3	
etone	120	ug/kg	20	1.00	06/30/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	10	1.00	06/30/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/30/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/30/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/30/00	NLA	591-78-6	
Xylene (Total)	20	ug/kg	5	1.00	06/30/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	50	1.00	06/30/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.99	06/30/00	NLA	1868-53-7	
Toluene-d8 (S)	88	%		0.99	06/30/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	97	%		0.99	06/30/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%		0.99	06/30/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	3300	9.83	06/27/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	3300	9.83	06/27/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	16000	9.83	06/27/00	WAW	65-85-0	
Naphthalene	950	ug/kg	3300	9.83	06/27/00	WAW	91-20-3	2
xachlorobutadiene	ND	ug/kg	3300	9.83	06/27/00	WAW	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	4200	ug/kg	3300	9.83	06/27/00	WAW	91-57-6	
Acenaphthene	680	ug/kg	3300	9.83	06/27/00	WAW	83-32-9	2
Dibenzofuran	ND	ug/kg	3300	9.83	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3300	9.83	06/27/00	WAW	121-14-2	
Fluorene	550	ug/kg	3300	9.83	06/27/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	3300	9.83	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	118-74-1	
Phenanthrene	1900	ug/kg	3300	9.83	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	3300	9.83	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3300	9.83	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	3300	9.83	06/27/00	WAW	206-44-0	
Pyrene	1400	ug/kg	3300	9.83	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	3300	9.83	06/27/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	3300	9.83	06/27/00	WAW	56-55-3	
Chrysene	490	ug/kg	3300	9.83	06/27/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	1900	ug/kg	3300	9.83	06/27/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3300	9.83	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	80	%		0.99	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	85	%		0.99	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	83	%		0.99	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	80	%		0.99	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	63	%		0.99	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	85	%		0.99	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: DUP | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13500	mg/kg	9.21	0.97	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	6.14	0.97	06/27/00	CAS	7440-36-0	
Arsenic	13.4	mg/kg	10.4	0.97	06/27/00	CAS	7440-38-2	
Barium	254	mg/kg	0.491	0.97	06/27/00	CAS	7440-39-3	1
Beryllium	0.61	mg/kg	0.123	0.97	06/27/00	CAS	7440-41-7	
Cadmium	0.0254	mg/kg	0.614	0.97	06/27/00	CAS	7440-43-9	1
Calcium	4260	mg/kg	12.3	0.97	06/27/00	CAS	7440-70-2	
Chromium	15.5	mg/kg	0.86	0.97	06/27/00	CAS	7440-47-3	
Cobalt	12	mg/kg	0.86	0.97	06/27/00	CAS	7440-48-4	1
Copper	20.2	mg/kg	1.23	0.97	06/27/00	CAS	7440-50-8	
Iron	21200	mg/kg	4.91	0.97	06/27/00	CAS	7439-89-6	1
Lead	15.7	mg/kg	6.14	0.97	06/27/00	CAS	7439-92-1	1
Magnesium	3870	mg/kg	6.14	0.97	06/27/00	CAS	7439-95-4	1
Manganese	751	mg/kg	0.86	0.97	06/27/00	CAS	7439-96-5	1
Nickel	24.1	mg/kg	3.69	0.97	06/27/00	CAS	7440-02-0	1
Potassium	1640	mg/kg	123	0.97	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.86	0.97	06/27/00	CAS	7440-22-4	
Vanadium	34.1	mg/kg	1.47	0.97	06/27/00	CAS	7440-62-2	1
Zinc	65.5	mg/kg	12.3	0.97	06/27/00	CAS	7440-66-6	1
Tin	0.454	mg/kg	30.7	0.97	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.195	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.614	0.97	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.582	mg/kg	0.127	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.27	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: DUP Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	30.4	mg/kg	6.33	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.0	%		0.79	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/20/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	13	10.0	06/20/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	42	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	69	%		0.79	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	73	%		0.79	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	42	1.00	06/14/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	55	%		0.79	06/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.79	06/14/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	81	%		0.79	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.3	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.2	ug/kg	6.3	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	156-60-5	

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Client Project ID: ISC RFI

Pace Sample No: 603556655 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: DUP | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	71-55-6	
Benzene	6.9	ug/kg	6.3	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.3	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.3	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6.3	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	43	ug/kg	6.3	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.3	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.3	1.00	06/24/00	NLA	87-68-3	
etone	32	ug/kg	25	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	61	ug/kg	6.3	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	63	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	105	%		0.79	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	86	%		0.79	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	72	%		0.79	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%		0.79	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	410	0.99	06/26/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	410	0.99	06/26/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	0.99	06/26/00	WAW	65-85-0
Naphthalene	1100	ug/kg	410	0.99	06/26/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	410	0.99	06/26/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: DUP | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	5400	ug/kg	410	0.99	06/26/00	WAW	91-57-6	5
Acenaphthene	380	ug/kg	410	0.99	06/26/00	WAW	83-32-9	2
Dibenzofuran	ND	ug/kg	410	0.99	06/26/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	0.99	06/26/00	WAW	121-14-2	
Fluorene	430	ug/kg	410	0.99	06/26/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.99	06/26/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	118-74-1	
Phenanthrene	1600	ug/kg	410	0.99	06/26/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.99	06/26/00	WAW	120-12-7	
Di-n-butylphthalate	260	ug/kg	410	0.99	06/26/00	WAW	84-74-2	2
Fluoranthene	ND	ug/kg	410	0.99	06/26/00	WAW	206-44-0	
Pyrene	250	ug/kg	410	0.99	06/26/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	410	0.99	06/26/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.99	06/26/00	WAW	56-55-3	
Chrysene	120	ug/kg	410	0.99	06/26/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	490	ug/kg	410	0.99	06/26/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	0.99	06/26/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	76	%		0.79	06/26/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	78	%		0.79	06/26/00	WAW	321-60-8	
Terphenyl-d14 (S)	72	%		0.79	06/26/00	WAW	1718-51-0	
Phenol-d6 (S)	79	%		0.79	06/26/00	WAW	13127-88-3	
2-Fluorophenol (S)	69	%		0.79	06/26/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	60	%		0.79	06/26/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX2 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	18600	mg/kg	7.24	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.83	0.94	06/27/00	CAS	7440-36-0	
Arsenic	10.4	mg/kg	8.21	0.94	06/27/00	CAS	7440-38-2	
Barium	125	mg/kg	0.386	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	1.13	mg/kg	0.0966	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0	mg/kg	0.483	0.94	06/27/00	CAS	7440-43-9	1
Calcium	14500	mg/kg	9.66	0.94	06/27/00	CAS	7440-70-2	
Chromium	26.4	mg/kg	0.676	0.94	06/27/00	CAS	7440-47-3	
Cobalt	16.9	mg/kg	0.676	0.94	06/27/00	CAS	7440-48-4	1
Copper	18.1	mg/kg	0.966	0.94	06/27/00	CAS	7440-50-8	
Iron	24800	mg/kg	3.86	0.94	06/27/00	CAS	7439-89-6	1
Lead	9.01	mg/kg	4.83	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	10900	mg/kg	4.83	0.94	06/27/00	CAS	7439-95-4	1
Manganese	356	mg/kg	0.676	0.94	06/27/00	CAS	7439-96-5	1
Nickel	41.1	mg/kg	2.9	0.94	06/27/00	CAS	7440-02-0	1
Potassium	5770	mg/kg	96.6	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.676	0.94	06/27/00	CAS	7440-22-4	
Vanadium	15.1	mg/kg	1.16	0.94	06/27/00	CAS	7440-62-2	1
Zinc	59.5	mg/kg	9.66	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24.1	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.158	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.512	1.00	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.215	mg/kg	0.102	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.02	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX2 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	28.7	mg/kg	5.12	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	2.3	%		0.98	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/20/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	10	10.0	06/20/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	34	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.98	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	80	%		0.98	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	34	1.00	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	45	%		0.98	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	52	%		0.98	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	41	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	15	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	62	%		0.98	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.1	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	580	ug/kg	5.1	1.00	06/26/00	NLA	75-09-2	1,5
1,1-Dichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX2 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.1	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.1	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.1	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.1	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.1	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.1	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	5.1	1.00	06/26/00	NLA	87-68-3	
:tone	45	ug/kg	20	1.00	06/26/00	NLA	67-64-1	1
2-Butanone	9.2	ug/kg	10	1.00	06/26/00	NLA	78-93-3	2
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.1	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	51	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	84	%		0.98	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	95	%		0.98	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	95	%		0.98	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%		0.98	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	340	1.00	06/25/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	340	1.00	06/25/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1600	1.00	06/25/00	WAW	65-85-0	
Naphthalene	58	ug/kg	340	1.00	06/25/00	WAW	91-20-3	2
xachlorobutadiene	ND	ug/kg	340	1.00	06/25/00	WAW	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX2 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	130	ug/kg	340	1.00	06/25/00	WAW	91-57-6	2
Acenaphthene	ND	ug/kg	340	1.00	06/25/00	WAW	83-32-9	
Dibenzofuran	100	ug/kg	340	1.00	06/25/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	340	1.00	06/25/00	WAW	121-14-2	
Fluorene	ND	ug/kg	340	1.00	06/25/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	340	1.00	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	118-74-1	
Phenanthrene	100	ug/kg	340	1.00	06/25/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	340	1.00	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	200	ug/kg	340	1.00	06/25/00	WAW	84-74-2	2
Fluoranthene	ND	ug/kg	340	1.00	06/25/00	WAW	206-44-0	
Pyrene	56	ug/kg	340	1.00	06/25/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	340	1.00	06/25/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	340	1.00	06/25/00	WAW	56-55-3	
Chrysene	ND	ug/kg	340	1.00	06/25/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	340	1.00	06/25/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	340	1.00	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	66	%		0.98	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	67	%		0.98	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	75	%		0.98	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.98	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	63	%		0.98	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.98	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX3 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	12100	mg/kg	7.87	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.25	0.94	06/27/00	CAS	7440-36-0	
Arsenic	14.8	mg/kg	8.92	0.94	06/27/00	CAS	7440-38-2	
Barium	278	mg/kg	0.42	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.657	mg/kg	0.105	0.94	06/27/00	CAS	7440-41-7	
Cadmium	2.59	mg/kg	0.525	0.94	06/27/00	CAS	7440-43-9	1
Calcium	201000	mg/kg	10500	943	06/27/00	CAS	7440-70-2	9
Chromium	48.4	mg/kg	0.734	0.94	06/27/00	CAS	7440-47-3	
Cobalt	8.75	mg/kg	0.734	0.94	06/27/00	CAS	7440-48-4	1
Copper	26.8	mg/kg	1.05	0.94	06/27/00	CAS	7440-50-8	
Iron	16700	mg/kg	4.2	0.94	06/27/00	CAS	7439-89-6	1
Lead	71	mg/kg	5.25	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	6710	mg/kg	5.25	0.94	06/27/00	CAS	7439-95-4	1
Manganese	418	mg/kg	0.734	0.94	06/27/00	CAS	7439-96-5	1
Nickel	43.3	mg/kg	3.15	0.94	06/27/00	CAS	7440-02-0	1
Potassium	2980	mg/kg	105	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.734	0.94	06/27/00	CAS	7440-22-4	
Vanadium	85.1	mg/kg	1.26	0.94	06/27/00	CAS	7440-62-2	1
Zinc	188	mg/kg	10.5	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	26.2	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.171	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.55	0.99	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.145	mg/kg	0.111	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.11	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX3 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	26.7	mg/kg	5.56	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	10.1	%		0.90	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	22	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	15	10.0	06/20/00	JLO	58-89-9	
'eptachlor	ND	ug/kg	11	10.0	06/20/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	37	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	72	%		0.90	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	74	%		0.90	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	35	ug/kg	36	0.99	06/15/00	JLO	11096-82-5	2
Decachlorobiphenyl (S)	47	%		0.90	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	52	%		0.90	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	44	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	2.4	ug/kg	17	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	82	%		0.90	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.6	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	56	ug/kg	5.6	1.00	06/26/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	75-35-4	
'ans-1,2-Dichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX3 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.6	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.6	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.6	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.6	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.6	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.6	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.6	1.00	06/26/00	NLA	87-68-3	
etone	7.1	ug/kg	22	1.00	06/26/00	NLA	67-64-1	1,2
2-Butanone	ND	ug/kg	11	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.6	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	56	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	82	%		0.90	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	96	%		0.90	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	96	%		0.90	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.90	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	360	0.99	06/27/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	360	0.99	06/27/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	1800	0.99	06/27/00	MSR	65-85-0
Naphthalene	ND	ug/kg	360	0.99	06/27/00	MSR	91-20-3
xachlorobutadiene	ND	ug/kg	360	0.99	06/27/00	MSR	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX3 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	360	0.99	06/27/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	360	0.99	06/27/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	360	0.99	06/27/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	360	0.99	06/27/00	MSR	121-14-2	
Fluorene	ND	ug/kg	360	0.99	06/27/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	0.99	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	118-74-1	
Phenanthrene	ND	ug/kg	360	0.99	06/27/00	MSR	85-01-8	
Anthracene	ND	ug/kg	360	0.99	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	260	ug/kg	360	0.99	06/27/00	MSR	84-74-2	1,2
Fluoranthene	ND	ug/kg	360	0.99	06/27/00	MSR	206-44-0	
Pyrene	ND	ug/kg	360	0.99	06/27/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	360	0.99	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	360	0.99	06/27/00	MSR	56-55-3	
rysene	ND	ug/kg	360	0.99	06/27/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	0.99	06/27/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	360	0.99	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	79	%		0.90	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	78	%		0.90	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	77	%		0.90	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	81	%		0.90	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	78	%		0.90	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	77	%		0.90	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556713 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX5 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	22.6	mg/kg	5.66	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	11.7	%		0.88	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	22	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	15	10.0	06/21/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	11	10.0	06/21/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	37	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	80	%		0.88	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	50	%		0.88	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	37	0.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	44	%		0.88	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	49	%		0.88	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	45	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	17	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	37	%		0.88	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.7	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	84	ug/kg	5.7	1.00	06/26/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556713 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX5 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.7	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.7	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.7	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.7	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.7	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.7	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	79-34-5	
'exachlorobutadiene	ND	ug/kg	5.7	1.00	06/26/00	NLA	87-68-3	
etone	23	ug/kg	23	1.00	06/26/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	11	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.7	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	57	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	84	%		0.88	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	92	%		0.88	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	92	%		0.88	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.88	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	370	1.00	06/26/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	370	1.00	06/26/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1800	1.00	06/26/00	WAW	65-85-0	
Naphthalene	64	ug/kg	370	1.00	06/26/00	WAW	91-20-3	2
xachlorobutadiene	ND	ug/kg	370	1.00	06/26/00	WAW	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556713 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX5 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	270	ug/kg	370	1.00	06/26/00	WAW	91-57-6	2
Acenaphthene	75	ug/kg	370	1.00	06/26/00	WAW	83-32-9	2
Dibenzofuran	59	ug/kg	370	1.00	06/26/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	370	1.00	06/26/00	WAW	121-14-2	
Fluorene	120	ug/kg	370	1.00	06/26/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	370	1.00	06/26/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	118-74-1	
Phenanthrene	340	ug/kg	370	1.00	06/26/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	370	1.00	06/26/00	WAW	120-12-7	
Di-n-butylphthalate	330	ug/kg	370	1.00	06/26/00	WAW	84-74-2	2
Fluoranthene	39	ug/kg	370	1.00	06/26/00	WAW	206-44-0	2
Pyrene	120	ug/kg	370	1.00	06/26/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	370	1.00	06/26/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	370	1.00	06/26/00	WAW	56-55-3	
rysene	55	ug/kg	370	1.00	06/26/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	370	1.00	06/26/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	108-39-4	
Pyridine	ND	ug/kg	370	1.00	06/26/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	87	%		0.88	06/26/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	96	%		0.88	06/26/00	WAW	321-60-8	
Terphenyl-d14 (S)	85	%		0.88	06/26/00	WAW	1718-51-0	
Phenol-d6 (S)	97	%		0.88	06/26/00	WAW	13127-88-3	
2-Fluorophenol (S)	83	%		0.88	06/26/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	85	%		0.88	06/26/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13700	mg/kg	7.56	0.97	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.04	0.97	06/27/00	CAS	7440-36-0	
Arsenic	14.7	mg/kg	8.57	0.97	06/27/00	CAS	7440-38-2	
Barium	296	mg/kg	0.403	0.97	06/27/00	CAS	7440-39-3	1
Beryllium	0.662	mg/kg	0.101	0.97	06/27/00	CAS	7440-41-7	
Cadmium	1.55	mg/kg	0.504	0.97	06/27/00	CAS	7440-43-9	1
Calcium	37200	mg/kg	10.1	0.97	06/27/00	CAS	7440-70-2	
Chromium	36.9	mg/kg	0.705	0.97	06/27/00	CAS	7440-47-3	
Cobalt	9.39	mg/kg	0.705	0.97	06/27/00	CAS	7440-48-4	1
Copper	30.9	mg/kg	1.01	0.97	06/27/00	CAS	7440-50-8	
Iron	17200	mg/kg	4.03	0.97	06/27/00	CAS	7439-89-6	1
Lead	462	mg/kg	5.04	0.97	06/27/00	CAS	7439-92-1	1
Magnesium	3300	mg/kg	5.04	0.97	06/27/00	CAS	7439-95-4	1
Manganese	492	mg/kg	0.705	0.97	06/27/00	CAS	7439-96-5	1
Nickel	24.5	mg/kg	3.02	0.97	06/27/00	CAS	7440-02-0	1
Potassium	1560	mg/kg	101	0.97	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.705	0.97	06/27/00	CAS	7440-22-4	
Vanadium	29	mg/kg	1.21	0.97	06/27/00	CAS	7440-62-2	1
Zinc	227	mg/kg	10.1	0.97	06/27/00	CAS	7440-66-6	1
Tin	0.11	mg/kg	25.2	0.97	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.16	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.514	0.99	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.28	mg/kg	0.104	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.04	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX6 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.8	mg/kg	5.19	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	3.7	%		0.96	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	21	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/21/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	10	10.0	06/21/00	JLO	76-44-8	
·ptachlor Epoxide	ND	ug/kg	34	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	64	%		0.96	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	37	%		0.96	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	460	ug/kg	68	1.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	40	%		0.96	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.96	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	42	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	3.6	ug/kg	16	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	60	%		0.96	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.2	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	22	ug/kg	5.2	1.00	06/26/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX6 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.2	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	79-01-6	
Toluene	11	ug/kg	5.2	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	4.4	ug/kg	5.2	1.00	06/26/00	NLA	127-18-4	2
Chlorobenzene	ND	ug/kg	5.2	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.2	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.2	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.2	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	79-34-5	
·xachlorobutadiene	ND	ug/kg	5.2	1.00	06/26/00	NLA	87-68-3	
etone	14	ug/kg	21	1.00	06/26/00	NLA	67-64-1	1,2
2-Butanone	ND	ug/kg	10	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	2.6	ug/kg	5.2	1.00	06/26/00	NLA	1330-20-7	2
1,4-Dioxane (P-Dioxane)	ND	ug/kg	52	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.96	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	91	%		0.96	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	93	%		0.96	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%		0.96	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	3400	9.92	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	3400	9.92	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	16000	9.92	06/27/00	WAW	65-85-0
Naphthalene	ND	ug/kg	3400	9.92	06/27/00	WAW	91-20-3
·achlorobutadiene	ND	ug/kg	3400	9.92	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	3400	9.92	06/27/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	3400	9.92	06/27/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	3400	9.92	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3400	9.92	06/27/00	WAW	121-14-2	
Fluorene	ND	ug/kg	3400	9.92	06/27/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	3400	9.92	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	118-74-1	
Phenanthrene	520	ug/kg	3400	9.92	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	3400	9.92	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	750	ug/kg	3400	9.92	06/27/00	WAW	84-74-2	1,2
Fluoranthene	470	ug/kg	3400	9.92	06/27/00	WAW	206-44-0	2
Pyrene	970	ug/kg	3400	9.92	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	3200	ug/kg	3400	9.92	06/27/00	WAW	85-68-7	2
nzo(a)anthracene	ND	ug/kg	3400	9.92	06/27/00	WAW	56-55-3	
rysene	490	ug/kg	3400	9.92	06/27/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3400	9.92	06/27/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3400	9.92	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	87	%		0.96	06/27/00	WAW	4165-60-0	10
2-Fluorobiphenyl (S)	84	%		0.96	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	82	%		0.96	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	80	%		0.96	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	75	%		0.96	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	85	%		0.96	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	6440	mg/kg	7.75	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.17	0.96	06/27/00	CAS	7440-36-0	
Arsenic	8.3	mg/kg	8.78	0.96	06/27/00	CAS	7440-38-2	2
Barium	127	mg/kg	0.413	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.344	mg/kg	0.103	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0.569	mg/kg	0.517	0.96	06/27/00	CAS	7440-43-9	1
Calcium	247000	mg/kg	10300	962	06/27/00	CAS	7440-70-2	7
Chromium	12.8	mg/kg	0.723	0.96	06/27/00	CAS	7440-47-3	
Cobalt	4.33	mg/kg	0.723	0.96	06/27/00	CAS	7440-48-4	1
ɔper	16.2	mg/kg	1.03	0.96	06/27/00	CAS	7440-50-8	
ɔn	8480	mg/kg	4.13	0.96	06/27/00	CAS	7439-89-6	1
Lead	137	mg/kg	5.17	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	3650	mg/kg	5.17	0.96	06/27/00	CAS	7439-95-4	1
Manganese	364	mg/kg	0.723	0.96	06/27/00	CAS	7439-96-5	1
Nickel	12.2	mg/kg	3.1	0.96	06/27/00	CAS	7440-02-0	1
Potassium	1190	mg/kg	103	0.96	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.723	0.96	06/27/00	CAS	7440-22-4	
Vanadium	15	mg/kg	1.24	0.96	06/27/00	CAS	7440-62-2	1
Zinc	83.7	mg/kg	10.3	0.96	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	25.8	0.96	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.165	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.488	0.91	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.204	mg/kg	0.107	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
ɔnide	ND	mg/kg	1.07	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	21.5	mg/kg	5.37	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	6.9	%		0.93	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	21	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/21/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	11	10.0	06/21/00	JLO	76-44-8	
.ptachlor Epoxide	ND	ug/kg	35	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	62	%		0.93	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	31	%		0.93	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	340	ug/kg	35	0.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.93	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.93	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	43	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	2.2	ug/kg	16	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	77	%		0.93	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.4	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	2.9	ug/kg	5.4	1.00	06/26/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	156-60-5	

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Client Project ID: ISC RFI

Pace Sample No: 603556739 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.4	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.4	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.4	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.4	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.4	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.4	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.4	1.00	06/26/00	NLA	87-68-3	
etone	21	ug/kg	21	1.00	06/26/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	11	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.4	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	54	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	83	%		0.93	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	97	%		0.93	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	99	%		0.93	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%		0.93	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	3500	9.91	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	3500	9.91	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	17000	9.91	06/27/00	WAW	65-85-0
Naphthalene	ND	ug/kg	3500	9.91	06/27/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	3500	9.91	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	1600	ug/kg	3500	9.91	06/27/00	WAW	91-57-6	2
Acenaphthene	ND	ug/kg	3500	9.91	06/27/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	3500	9.91	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3500	9.91	06/27/00	WAW	121-14-2	
Fluorene	ND	ug/kg	3500	9.91	06/27/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	3500	9.91	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	118-74-1	
Phenanthrene	1400	ug/kg	3500	9.91	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	3500	9.91	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3500	9.91	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	3500	9.91	06/27/00	WAW	206-44-0	
Pyrene	ND	ug/kg	3500	9.91	06/27/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	3500	9.91	06/27/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	3500	9.91	06/27/00	WAW	56-55-3	
rysene	ND	ug/kg	3500	9.91	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3500	9.91	06/27/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3500	9.91	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	103	%		0.93	06/27/00	WAW	4165-60-0	10
2-Fluorobiphenyl (S)	105	%		0.93	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	98	%		0.93	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	88	%		0.93	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	71	%		0.93	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	109	%		0.93	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	15300	mg/kg	8.89	0.93	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.93	0.93	06/27/00	CAS	7440-36-0	
Arsenic	14.6	mg/kg	10.1	0.93	06/27/00	CAS	7440-38-2	
Barium	261	mg/kg	0.474	0.93	06/27/00	CAS	7440-39-3	1
Beryllium	0.725	mg/kg	0.119	0.93	06/27/00	CAS	7440-41-7	
Cadmium	0.0064	mg/kg	0.593	0.93	06/27/00	CAS	7440-43-9	1
Calcium	3620	mg/kg	11.9	0.93	06/27/00	CAS	7440-70-2	
Chromium	17.1	mg/kg	0.83	0.93	06/27/00	CAS	7440-47-3	
Cobalt	12.1	mg/kg	0.83	0.93	06/27/00	CAS	7440-48-4	1
Copper	17.3	mg/kg	1.19	0.93	06/27/00	CAS	7440-50-8	
Iron	22200	mg/kg	4.74	0.93	06/27/00	CAS	7439-89-6	1
Lead	13.4	mg/kg	5.93	0.93	06/27/00	CAS	7439-92-1	1
Magnesium	3970	mg/kg	5.93	0.93	06/27/00	CAS	7439-95-4	1
Manganese	771	mg/kg	0.83	0.93	06/27/00	CAS	7439-96-5	1
Nickel	25.7	mg/kg	3.56	0.93	06/27/00	CAS	7440-02-0	1
Potassium	1780	mg/kg	119	0.93	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.83	0.93	06/27/00	CAS	7440-22-4	
Vanadium	39.3	mg/kg	1.42	0.93	06/27/00	CAS	7440-62-2	1
Zinc	78.7	mg/kg	11.9	0.93	06/27/00	CAS	7440-66-6	1
Tin	0.278	mg/kg	29.6	0.93	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.197	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.598	0.94	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.922	mg/kg	0.128	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.28	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.5	mg/kg	6.4	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.9	%		0.78	06/13/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.5	1.00	06/20/00	JLO	319-85-7	11
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.78	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	56	%		0.78	06/20/00	JLO	877-09-8	
Date Extracted					06/19/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	42	1.00	06/28/00	JLO	11096-82-5	12
Decachlorobiphenyl (S)	63	%		0.78	06/28/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	49	%		0.78	06/28/00	JLO	877-09-8	
Date Extracted					06/19/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	80	%		0.78	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.1	ug/kg	6.4	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-55-6	
Benzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6.4	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.4	1.00	06/24/00	NLA	87-68-3	
etone	420	ug/kg	26	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	37	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	6.4	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	64	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	108	%		0.78	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	103	%		0.78	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	99	%		0.78	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%		0.78	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	420	0.99	06/25/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	420	0.99	06/25/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	0.99	06/25/00	WAW	65-85-0
Naphthalene	ND	ug/kg	420	0.99	06/25/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	420	0.99	06/25/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	420	0.99	06/25/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.99	06/25/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	420	0.99	06/25/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	420	0.99	06/25/00	WAW	121-14-2	
Fluorene	ND	ug/kg	420	0.99	06/25/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.99	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.99	06/25/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.99	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	330	ug/kg	420	0.99	06/25/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	420	0.99	06/25/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.99	06/25/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.99	06/25/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	420	0.99	06/25/00	WAW	56-55-3	
rysene	ND	ug/kg	420	0.99	06/25/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.99	06/25/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	420	0.99	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	68	%		0.78	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.78	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	78	%		0.78	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	71	%		0.78	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	69	%		0.78	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	90	%		0.78	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556754 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	16900	mg/kg	8.97	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.98	0.96	06/27/00	CAS	7440-36-0	
Arsenic	13.4	mg/kg	10.2	0.96	06/27/00	CAS	7440-38-2	
Barium	229	mg/kg	0.478	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.734	mg/kg	0.12	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0	mg/kg	0.598	0.96	06/27/00	CAS	7440-43-9	1
Calcium	2530	mg/kg	12	0.96	06/27/00	CAS	7440-70-2	
Chromium	17.1	mg/kg	0.837	0.96	06/27/00	CAS	7440-47-3	
Cobalt	11.7	mg/kg	0.837	0.96	06/27/00	CAS	7440-48-4	1
·pper	13.8	mg/kg	1.2	0.96	06/27/00	CAS	7440-50-8	
on	19500	mg/kg	4.78	0.96	06/27/00	CAS	7439-89-6	1
Lead	12.6	mg/kg	5.98	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	3120	mg/kg	5.98	0.96	06/27/00	CAS	7439-95-4	1
Manganese	821	mg/kg	0.837	0.96	06/27/00	CAS	7439-96-5	1
Nickel	23	mg/kg	3.59	0.96	06/27/00	CAS	7440-02-0	1
Potassium	1840	mg/kg	120	0.96	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.837	0.96	06/27/00	CAS	7440-22-4	
Vanadium	36.1	mg/kg	1.44	0.96	06/27/00	CAS	7440-62-2	1
Zinc	61.5	mg/kg	12	0.96	06/27/00	CAS	7440-66-6	1
Tin	0.552	mg/kg	29.9	0.96	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.192	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.56	0.90	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.386	mg/kg	0.124	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.24	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556754 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	29.9	mg/kg	6.22	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.6	%		0.80	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.5	1.00	06/20/00	JLO	319-85-7	11
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	06/20/00	JLO	58-89-9	
eptachlor	ND	ug/kg	1.2	1.00	06/20/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	4.1	1.00	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	82	%		0.80	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.80	06/20/00	JLO	877-09-8	
Date Extracted					06/19/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	41	1.00	06/28/00	JLO	11096-82-5	13
Decachlorobiphenyl (S)	59	%		0.80	06/28/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	52	%		0.80	06/28/00	JLO	877-09-8	
Date Extracted					06/19/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	50	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	75	%		0.80	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.2	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.1	ug/kg	6.2	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	156-60-5	

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Pace Sample No: 603556754 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	71-55-6	
Benzene	12	ug/kg	6.2	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	79-01-6	
Toluene	1.6	ug/kg	6.2	1.00	06/24/00	NLA	108-88-3	2
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	5.3	ug/kg	6.2	1.00	06/24/00	NLA	100-41-4	2
O-Xylene (1,2-Dimethylbenzene)	10	ug/kg	6.2	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.2	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.2	1.00	06/24/00	NLA	87-68-3	
etone	320	ug/kg	25	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	44	ug/kg	12	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	24	ug/kg	6.2	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	62	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	101	%		0.80	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	101	%		0.80	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	101	%		0.80	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%		0.80	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	410	1.00	06/25/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	410	1.00	06/25/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	1.00	06/25/00	WAW	65-85-0
Naphthalene	ND	ug/kg	410	1.00	06/25/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	410	1.00	06/25/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556754 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	410	1.00	06/25/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	1.00	06/25/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	1.00	06/25/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	1.00	06/25/00	WAW	121-14-2	
Fluorene	ND	ug/kg	410	1.00	06/25/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	1.00	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	1.00	06/25/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	1.00	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	270	ug/kg	410	1.00	06/25/00	WAW	84-74-2	2
Fluoranthene	ND	ug/kg	410	1.00	06/25/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	1.00	06/25/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	1.00	06/25/00	WAW	85-68-7	
nzo(a)anthracene	42	ug/kg	410	1.00	06/25/00	WAW	56-55-3	2
rysene	47	ug/kg	410	1.00	06/25/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	1.00	06/25/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	1.00	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	69	%		0.80	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.80	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	70	%		0.80	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	71	%		0.80	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	73	%		0.80	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	80	%		0.80	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX9 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	11700	mg/kg	8.69	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.79	0.94	06/27/00	CAS	7440-36-0	
Arsenic	13.2	mg/kg	9.85	0.94	06/27/00	CAS	7440-38-2	
Barium	285	mg/kg	0.464	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.63	mg/kg	0.116	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0.365	mg/kg	0.579	0.94	06/27/00	CAS	7440-43-9	1,2
Calcium	3740	mg/kg	11.6	0.94	06/27/00	CAS	7440-70-2	
Chromium	15.9	mg/kg	0.811	0.94	06/27/00	CAS	7440-47-3	
Cobalt	11.9	mg/kg	0.811	0.94	06/27/00	CAS	7440-48-4	1
oper	17.1	mg/kg	1.16	0.94	06/27/00	CAS	7440-50-8	
on	20300	mg/kg	4.64	0.94	06/27/00	CAS	7439-89-6	1
Lead	17.2	mg/kg	5.79	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	3600	mg/kg	5.79	0.94	06/27/00	CAS	7439-95-4	1
Manganese	1100	mg/kg	0.811	0.94	06/27/00	CAS	7439-96-5	1
Nickel	30.9	mg/kg	3.48	0.94	06/27/00	CAS	7440-02-0	1
Potassium	1610	mg/kg	116	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.811	0.94	06/27/00	CAS	7440-22-4	
Vanadium	29.9	mg/kg	1.39	0.94	06/27/00	CAS	7440-62-2	1
Zinc	73.9	mg/kg	11.6	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	29	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.189	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.563	0.92	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.418	mg/kg	0.123	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.23	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX9 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	19.7	mg/kg	6.14	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.6	%		0.81	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	24	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	10.0	06/21/00	JLO	58-89-9	
ɔtachlor	ND	ug/kg	12	10.0	06/21/00	JLO	76-44-8	
.eptachlor Epoxide	ND	ug/kg	41	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.81	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	66	%		0.81	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	150	ug/kg	40	0.98	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	50	%		0.81	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	51	%		0.81	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	49	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	84	%		0.81	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.1	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	7.7	ug/kg	6.1	1.00	06/24/00	NLA	75-09-2	
1-Dichloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX9 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	71-55-6	
Benzene	ND	ug/kg	6.1	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	11	ug/kg	6.1	1.00	06/24/00	NLA	79-01-6	
Toluene	38	ug/kg	6.1	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.1	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	82	ug/kg	6.1	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	180	ug/kg	6.1	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.1	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	79-34-5	
‹achlorobutadiene	ND	ug/kg	6.1	1.00	06/24/00	NLA	87-68-3	
_etone	34	ug/kg	25	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	12	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	440	ug/kg	6.1	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	61	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	132	%		0.81	06/24/00	NLA	1868-53-7	6
Toluene-d8 (S)	75	%		0.81	06/24/00	NLA	2037-26-5	14
4-Bromofluorobenzene (S)	95	%		0.81	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	131	%		0.81	06/24/00	NLA	17060-07-0	6

GC/MS Semivolatiles

Semivolatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	390	0.97	06/25/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	390	0.97	06/25/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	1900	0.97	06/25/00	WAW	65-85-0
"ɔphthalene	210	ug/kg	390	0.97	06/25/00	WAW	91-20-3
‹achlorobutadiene	ND	ug/kg	390	0.97	06/25/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX9 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	1100	ug/kg	390	0.97	06/25/00	WAW	91-57-6	
Acenaphthene	96	ug/kg	390	0.97	06/25/00	WAW	83-32-9	2
Dibenzofuran	80	ug/kg	390	0.97	06/25/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	390	0.97	06/25/00	WAW	121-14-2	
Fluorene	130	ug/kg	390	0.97	06/25/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	390	0.97	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	118-74-1	
Phenanthrene	470	ug/kg	390	0.97	06/25/00	WAW	85-01-8	
Anthracene	ND	ug/kg	390	0.97	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	250	ug/kg	390	0.97	06/25/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	390	0.97	06/25/00	WAW	206-44-0	
Pyrene	97	ug/kg	390	0.97	06/25/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	390	0.97	06/25/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	390	0.97	06/25/00	WAW	56-55-3	
nrysene	ND	ug/kg	390	0.97	06/25/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	160	ug/kg	390	0.97	06/25/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	390	0.97	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	82	%		0.81	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	79	%		0.81	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	75	%		0.81	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	83	%		0.81	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	76	%		0.81	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	81	%		0.81	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX10 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13600	mg/kg	9.42	0.98	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	6.28	0.98	06/27/00	CAS	7440-36-0	
Arsenic	13.1	mg/kg	10.7	0.98	06/27/00	CAS	7440-38-2	
Barium	271	mg/kg	0.502	0.98	06/27/00	CAS	7440-39-3	1
Beryllium	0.651	mg/kg	0.126	0.98	06/27/00	CAS	7440-41-7	
Cadmium	0.0821	mg/kg	0.628	0.98	06/27/00	CAS	7440-43-9	1,2
Calcium	3590	mg/kg	12.6	0.98	06/27/00	CAS	7440-70-2	
Chromium	17.9	mg/kg	0.879	0.98	06/27/00	CAS	7440-47-3	
Cobalt	12	mg/kg	0.879	0.98	06/27/00	CAS	7440-48-4	1
pper	17.8	mg/kg	1.26	0.98	06/27/00	CAS	7440-50-8	
on	18800	mg/kg	5.02	0.98	06/27/00	CAS	7439-89-6	1
Lead	17.1	mg/kg	6.28	0.98	06/27/00	CAS	7439-92-1	1
Magnesium	3770	mg/kg	6.28	0.98	06/27/00	CAS	7439-95-4	1
Manganese	540	mg/kg	0.879	0.98	06/27/00	CAS	7439-96-5	1
Nickel	24.4	mg/kg	3.77	0.98	06/27/00	CAS	7440-02-0	1
Potassium	1900	mg/kg	126	0.98	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.879	0.98	06/27/00	CAS	7440-22-4	
Vanadium	38.3	mg/kg	1.51	0.98	06/27/00	CAS	7440-62-2	1
Zinc	75.8	mg/kg	12.6	0.98	06/27/00	CAS	7440-66-6	1
Tin	0.296	mg/kg	31.4	0.98	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.197	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.628	0.98	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.333	mg/kg	0.128	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.28	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX10 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	15.4	mg/kg	6.4	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.9	%		0.78	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/21/00	JLO	58-89-9	
ptachlor	ND	ug/kg	13	10.0	06/21/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	42	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	75	%		0.78	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	66	%		0.78	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	140	ug/kg	42	0.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	43	%		0.78	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.78	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	36	%		0.78	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.5	ug/kg	6.4	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX10 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-55-6	
Benzene	190	ug/kg	6.4	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-01-6	
Toluene	370	ug/kg	6.4	1.00	06/24/00	NLA	108-88-3	5
Tetrachloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	930	ug/kg	6.4	1.00	06/24/00	NLA	100-41-4	5
O-Xylene (1,2-Dimethylbenzene)	2000	ug/kg	6.4	1.00	06/24/00	NLA	95-47-6	5
Styrene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.4	1.00	06/24/00	NLA	87-68-3	
.cetone	51	ug/kg	26	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	3900	ug/kg	6.4	1.00	06/24/00	NLA	1330-20-7	5
1,4-Dioxane (P-Dioxane)	ND	ug/kg	64	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	94	%		0.78	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	89	%		0.78	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	76	%		0.78	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%		0.78	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	830	1.97	06/27/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	830	1.97	06/27/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	4000	1.97	06/27/00	MSR	65-85-0
Naphthalene	1300	ug/kg	830	1.97	06/27/00	MSR	91-20-3
xachlorobutadiene	ND	ug/kg	830	1.97	06/27/00	MSR	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX10 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	5000	ug/kg	830	1.97	06/27/00	MSR	91-57-6	
Acenaphthene	300	ug/kg	830	1.97	06/27/00	MSR	83-32-9	2
Dibenzofuran	230	ug/kg	830	1.97	06/27/00	MSR	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	830	1.97	06/27/00	MSR	121-14-2	
Fluorene	390	ug/kg	830	1.97	06/27/00	MSR	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	830	1.97	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	118-74-1	
Phenanthrene	1200	ug/kg	830	1.97	06/27/00	MSR	85-01-8	
Anthracene	ND	ug/kg	830	1.97	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	360	ug/kg	830	1.97	06/27/00	MSR	84-74-2	1,2
Fluoranthene	ND	ug/kg	830	1.97	06/27/00	MSR	206-44-0	
Pyrene	300	ug/kg	830	1.97	06/27/00	MSR	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	830	1.97	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	830	1.97	06/27/00	MSR	56-55-3	
rysene	ND	ug/kg	830	1.97	06/27/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	490	ug/kg	830	1.97	06/27/00	MSR	117-81-7	2
3-Methylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	830	1.97	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	95	%		0.78	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	95	%		0.78	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	86	%		0.78	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	97	%		0.78	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	95	%		0.78	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	90	%		0.78	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	3320	mg/kg	7.2	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.8	0.94	06/27/00	CAS	7440-36-0	
Arsenic	ND	mg/kg	8.16	0.94	06/27/00	CAS	7440-38-2	
Barium	202	mg/kg	0.384	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.201	mg/kg	0.096	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0.855	mg/kg	0.48	0.94	06/27/00	CAS	7440-43-9	1
Calcium	254000	mg/kg	9600	943	06/27/00	CAS	7440-70-2	15
Chromium	24.8	mg/kg	0.672	0.94	06/27/00	CAS	7440-47-3	
Cobalt	3.18	mg/kg	0.672	0.94	06/27/00	CAS	7440-48-4	1
Copper	47.6	mg/kg	0.96	0.94	06/27/00	CAS	7440-50-8	
Iron	7300	mg/kg	3.84	0.94	06/27/00	CAS	7439-89-6	1
Lead	90.7	mg/kg	4.8	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	5050	mg/kg	4.8	0.94	06/27/00	CAS	7439-95-4	1
Manganese	338	mg/kg	0.672	0.94	06/27/00	CAS	7439-96-5	1
Nickel	12.4	mg/kg	2.88	0.94	06/27/00	CAS	7440-02-0	1
Potassium	642	mg/kg	96	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.672	0.94	06/27/00	CAS	7440-22-4	
Vanadium	7.66	mg/kg	1.15	0.94	06/27/00	CAS	7440-62-2	1
Zinc	172	mg/kg	9.6	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.157	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.462	0.91	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.203	mg/kg	0.102	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.02	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	16.3	mg/kg	5.09	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	1.7	%		0.98	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	13	10.0	06/21/00	JLO	58-89-9	
›tachlor	ND	ug/kg	10	10.0	06/21/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	34	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	63	%		0.98	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	74	%		0.98	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	36	ug/kg	33	0.98	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.98	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	58	%		0.98	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	41	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	15	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	92	%		0.98	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.1	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	2.8	ug/kg	5.1	1.00	06/24/00	NLA	75-09-2	1,2
' 1-Dichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	156-60-5	

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Client Project ID: ISC RFI

Pace Sample No: 603556838 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.1	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.1	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.1	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.1	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.1	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.1	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.1	1.00	06/24/00	NLA	87-68-3	
.cetone	ND	ug/kg	20	1.00	06/24/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	10	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.1	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	51	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	103	%		0.98	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	80	%		0.98	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	80	%		0.98	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%		0.98	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	330	0.97	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	330	0.97	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	1600	0.97	06/27/00	WAW	65-85-0
'phthalene	ND	ug/kg	330	0.97	06/27/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	330	0.97	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	330	0.97	06/27/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	330	0.97	06/27/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	330	0.97	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	330	0.97	06/27/00	WAW	121-14-2	
Fluorene	ND	ug/kg	330	0.97	06/27/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	330	0.97	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	330	0.97	06/27/00	WAW	85-01-8	
Anthracene	ND	ug/kg	330	0.97	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	210	ug/kg	330	0.97	06/27/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	330	0.97	06/27/00	WAW	206-44-0	
Pyrene	ND	ug/kg	330	0.97	06/27/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	330	0.97	06/27/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	330	0.97	06/27/00	WAW	56-55-3	
..rysene	ND	ug/kg	330	0.97	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	330	0.97	06/27/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	330	0.97	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	89	%		0.98	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	88	%		0.98	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	75	%		0.98	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	93	%		0.98	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	90	%		0.98	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	91	%		0.98	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	2950	mg/kg	7.44	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.96	0.96	06/27/00	CAS	7440-36-0	
Arsenic	6.61	mg/kg	8.43	0.96	06/27/00	CAS	7440-38-2	2
Barium	77.9	mg/kg	0.397	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.188	mg/kg	0.0991	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0.481	mg/kg	0.496	0.96	06/27/00	CAS	7440-43-9	1,2
Calcium	283000	mg/kg	9910	962	06/27/00	CAS	7440-70-2	7
Chromium	9.1	mg/kg	0.694	0.96	06/27/00	CAS	7440-47-3	
Cobalt	2.89	mg/kg	0.694	0.96	06/27/00	CAS	7440-48-4	1
pper	17.4	mg/kg	0.991	0.96	06/27/00	CAS	7440-50-8	
ron	6540	mg/kg	3.97	0.96	06/27/00	CAS	7439-89-6	1
Lead	103	mg/kg	4.96	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	6310	mg/kg	4.96	0.96	06/27/00	CAS	7439-95-4	1
Manganese	375	mg/kg	0.694	0.96	06/27/00	CAS	7439-96-5	1
Nickel	9.86	mg/kg	2.97	0.96	06/27/00	CAS	7440-02-0	1
Potassium	799	mg/kg	99.1	0.96	06/27/00	CAS	7440-09-7	1
Silver	0.213	mg/kg	0.694	0.96	06/27/00	CAS	7440-22-4	2
Vanadium	7.78	mg/kg	1.19	0.96	06/27/00	CAS	7440-62-2	1
Zinc	56.9	mg/kg	9.91	0.96	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24.8	0.96	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.159	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.51	0.99	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.134	mg/kg	0.103	0.10	06/14/00	JKS	18540-29-9	
nide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.03	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.6	mg/kg	5.16	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	3.0	%		0.97	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/21/00	JLO	58-89-9	
›tachlor	ND	ug/kg	10	10.0	06/21/00	JLO	76-44-8	
..eptachlor Epoxide	ND	ug/kg	34	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	71	%		0.97	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	58	%		0.97	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	440	ug/kg	170	4.95	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	39	%		0.97	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	55	%		0.97	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	41	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	1.7	ug/kg	15	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	38	%		0.97	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	26	5.00	06/29/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	26	5.00	06/29/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	75-00-3	
Methylene Chloride	83	ug/kg	26	5.00	06/29/00	NLA	75-09-2	1
1-Dichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	71-55-6	
Benzene	ND	ug/kg	26	5.00	06/29/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	79-01-6	
Toluene	ND	ug/kg	26	5.00	06/29/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	26	5.00	06/29/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	26	5.00	06/29/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	26	5.00	06/29/00	NLA	95-47-6	
Styrene	ND	ug/kg	26	5.00	06/29/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	26	5.00	06/29/00	NLA	87-68-3	
.cetone	280	ug/kg	100	5.00	06/29/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	52	5.00	06/29/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	52	5.00	06/29/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	52	5.00	06/29/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	520	5.00	06/29/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	26	5.00	06/29/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	260	5.00	06/29/00	NLA	123-91-1	
Dibromofluoromethane (S)	93	%		0.97	06/29/00	NLA	1868-53-7	
Toluene-d8 (S)	92	%		0.97	06/29/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	95	%		0.97	06/29/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%		0.97	06/29/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	3300	9.74	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	3300	9.74	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	16000	9.74	06/27/00	WAW	65-85-0
'aphthalene	ND	ug/kg	3300	9.74	06/27/00	WAW	91-20-3
.xachlorobutadiene	ND	ug/kg	3300	9.74	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	1700	ug/kg	3300	9.74	06/27/00	WAW	91-57-6	2
Acenaphthene	880	ug/kg	3300	9.74	06/27/00	WAW	83-32-9	2
Dibenzofuran	710	ug/kg	3300	9.74	06/27/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	3300	9.74	06/27/00	WAW	121-14-2	
Fluorene	1700	ug/kg	3300	9.74	06/27/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	3300	9.74	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	118-74-1	
Phenanthrene	4100	ug/kg	3300	9.74	06/27/00	WAW	85-01-8	
Anthracene	ND	ug/kg	3300	9.74	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3300	9.74	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	3300	9.74	06/27/00	WAW	206-44-0	
Pyrene	1100	ug/kg	3300	9.74	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	3300	9.74	06/27/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	3300	9.74	06/27/00	WAW	56-55-3	
nrysene	ND	ug/kg	3300	9.74	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	1500	ug/kg	3300	9.74	06/27/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3300	9.74	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	101	%		0.97	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	98	%		0.97	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	95	%		0.97	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	91	%		0.97	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	77	%		0.97	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	95	%		0.97	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556861 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	16000	mg/kg	9.19	0.95	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	6.12	0.95	06/27/00	CAS	7440-36-0	
Arsenic	11.7	mg/kg	10.4	0.95	06/27/00	CAS	7440-38-2	
Barium	251	mg/kg	0.49	0.95	06/27/00	CAS	7440-39-3	1
Beryllium	0.703	mg/kg	0.122	0.95	06/27/00	CAS	7440-41-7	
Cadmium	0	mg/kg	0.612	0.95	06/27/00	CAS	7440-43-9	1
Calcium	3410	mg/kg	12.2	0.95	06/27/00	CAS	7440-70-2	
Chromium	18	mg/kg	0.857	0.95	06/27/00	CAS	7440-47-3	
Cobalt	12.2	mg/kg	0.857	0.95	06/27/00	CAS	7440-48-4	1
Copper	16.7	mg/kg	1.22	0.95	06/27/00	CAS	7440-50-8	
Iron	21800	mg/kg	4.9	0.95	06/27/00	CAS	7439-89-6	1
Lead	16.1	mg/kg	6.12	0.95	06/27/00	CAS	7439-92-1	1
Magnesium	4100	mg/kg	6.12	0.95	06/27/00	CAS	7439-95-4	1
Manganese	617	mg/kg	0.857	0.95	06/27/00	CAS	7439-96-5	1
Nickel	24	mg/kg	3.67	0.95	06/27/00	CAS	7440-02-0	1
Potassium	2140	mg/kg	122	0.95	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.857	0.95	06/27/00	CAS	7440-22-4	
Vanadium	39.2	mg/kg	1.47	0.95	06/27/00	CAS	7440-62-2	1
Zinc	71.8	mg/kg	12.2	0.95	06/27/00	CAS	7440-66-6	1
Tin	0.0663	mg/kg	30.6	0.95	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.198	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.643	1.00	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.399	mg/kg	0.129	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.29	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556861 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.6	mg/kg	6.43	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.2	%		0.78	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/21/00	JLO	58-89-9	
ptachlor	ND	ug/kg	13	10.0	06/21/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	42	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	63	%		0.78	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	66	%		0.78	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	69	ug/kg	42	1.00	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	48	%		0.78	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.78	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	40	%		0.78	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.3	ug/kg	6.4	1.00	06/24/00	NLA	75-09-2	1.2
1-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556861 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-55-6	
Benzene	10	ug/kg	6.4	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-01-6	
Toluene	23	ug/kg	6.4	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	370	ug/kg	32	5.00	06/24/00	NLA	100-41-4	4
O-Xylene (1,2-Dimethylbenzene)	810	ug/kg	32	5.00	06/24/00	NLA	95-47-6	4
Styrene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.4	1.00	06/24/00	NLA	87-68-3	
Acetone	370	ug/kg	26	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	15	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	2400	ug/kg	32	5.00	06/24/00	NLA	1330-20-7	4
1,4-Dioxane (P-Dioxane)	ND	ug/kg	64	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	97	%		0.78	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	91	%		0.78	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	66	%		0.78	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%		0.78	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	840	1.99	06/27/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	840	1.99	06/27/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	4100	1.99	06/27/00	MSR	65-85-0
Naphthalene	1400	ug/kg	840	1.99	06/27/00	MSR	91-20-3
Hexachlorobutadiene	ND	ug/kg	840	1.99	06/27/00	MSR	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556861 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	4300	ug/kg	840	1.99	06/27/00	MSR	91-57-6	
Acenaphthene	330	ug/kg	840	1.99	06/27/00	MSR	83-32-9	2
Dibenzofuran	190	ug/kg	840	1.99	06/27/00	MSR	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	840	1.99	06/27/00	MSR	121-14-2	
Fluorene	270	ug/kg	840	1.99	06/27/00	MSR	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	840	1.99	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	118-74-1	
Phenanthrene	1000	ug/kg	840	1.99	06/27/00	MSR	85-01-8	
Anthracene	ND	ug/kg	840	1.99	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	340	ug/kg	840	1.99	06/27/00	MSR	84-74-2	1,2
Fluoranthene	ND	ug/kg	840	1.99	06/27/00	MSR	206-44-0	
Pyrene	330	ug/kg	840	1.99	06/27/00	MSR	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	840	1.99	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	840	1.99	06/27/00	MSR	56-55-3	
ɔnrysene	180	ug/kg	840	1.99	06/27/00	MSR	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	840	1.99	06/27/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	840	1.99	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	94	%		0.78	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	86	%		0.78	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	88	%		0.78	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	93	%		0.78	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	95	%		0.78	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	86	%		0.78	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[2]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[3]	The sample was diluted due to the presence of high levels of non_target analytes.
[4]	This result is from a 1:5 dilution on 6/29/00.
[5]	Compound concentration exceeds the calibration range of the instrument (CLP E-Flag).
[6]	The surrogate recovery value exceeded the established laboratory control limit value.
[7]	Due to high analyte concentration, this sample was reported from the 06/28/00 analytical run. The dilution factor was necessary to bring it within the instument limitations.
[8]	Elevated quantitation limits resulting from matrix interference.
[9]	Due to high analyte concentration, this sample was reported from the 06/28/00 analytical run. The dilution factor was necessary to bring it within the instument limitations.
	Elevated detection limits due to difficult sample matrix.
[11]	This sample is associated to LCS 603616582.
[12]	This sample is associated to LCS 603612565.
[13]	This LCS is associated to LCS 603612565.
[14]	The surrogate recovery value is below the established laboratory control limit value.
[15]	Due to high analyte concentration, this sample was reported from the 06/28/00 analytical run. The dilution factor was necessary to bring it within the instument limitations.

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84852
Analysis Method: EPA 7841
Associated Pace Samples:

QC Batch Method: EPA 3050
Analysis Description: Thallium, AAS Furnace

603556606	603556614	603556622	603556655	603556697
603556705	603556713	603556721	603556739	603556747
603556754	603556804	603556820	603556838	603556846
603556861				

METHOD BLANK: 603558883
Associated Pace Samples:

603556606	603556614	603556622	603556655	603556697	603556705	603556713
603556721	603556739	603556747	603556754	603556804	603556820	603556838
603556846	603556861					

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.472	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603558891 603558909

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.4788	4.878	4.653	85.6	4.337	82.9	3	

LABORATORY CONTROL SAMPLE: 603558917

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.540	3.216	90.9	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84909
Analysis Method: EPA 8082
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

METHOD BLANK: 603560038
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	82		
Tetrachloro-meta-xylene (S)	%	69		

METHOD BLANK: 603612557
Associated Pace Samples:
603556747 603556754

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	71		
Tetrachloro-meta-xylene (S)	%	76		

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603560046 603560053

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	0	417.9	264.7	63.4	0	0	200	
Decachlorobiphenyl (S)					62		0		1
Tetrachloro-meta-xylene (S)					45		0		

LABORATORY CONTROL SAMPLE: 603560061

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	276.4	82.9	
Decachlorobiphenyl (S)				83	
Tetrachloro-meta-xylene (S)				71	

TORY CONTROL SAMPLE: 603612565

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	249.7	74.9	
Decachlorobiphenyl (S)				71	
Tetrachloro-meta-xylene (S)				68	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84910
QC Batch Method: EPA 3550
Analysis Method: EPA 8081A
Analysis Description: Organochlorine Pesticides, GC
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556804 603556820 603556838 603556846 603556861

METHOD BLANK: 603560079
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	60		
Tetrachloro-meta-xylene (S)	%	62		

METHOD BLANK: 603616574
Associated Pace Samples:
603556747 603556754

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
D[illegible]chlorobiphenyl (S)	%	85		
[illegible]chloro-meta-xylene (S)	%	78		

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603560087 603560095

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	21.34	15.67	73.4	18.72	87.7	18	
Heptachlor	ug/kg	0	21.34	15.10	70.8	18.21	85.3	19	
Decachlorobiphenyl (S)					72		88		
Tetrachloro-meta-xylene (S)					55		60		

LABORATORY CONTROL SAMPLE: 603560103

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	13.15	78.9	
gamma-BHC (Lindane)	ug/kg	16.67	12.83	77.0	
Heptachlor	ug/kg	16.67	12.59	75.5	
Heptachlor Epoxide	ug/kg	16.67	12.97	77.8	
[illegible]lorobiphenyl (S)				73	
[illegible]achloro-meta-xylene (S)				68	

LABORATORY CONTROL SAMPLE: 603616582

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	15.90	95.4	
gamma-BHC (Lindane)	ug/kg	16.67	12.64	75.8	
Heptachlor	ug/kg	16.67	12.34	74.0	
Heptachlor Epoxide	ug/kg	16.67	13.52	81.1	
Decachlorobiphenyl (S)				77	
Tetrachloro-meta-xylene (S)				69	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84931
Analysis Method: EPA 8260
Associated Pace Samples: 603556606, 603556614, 603556622, 603556655, 603556697, 603556705, 603556713, 603556721, 603556739, 603556747, 603556754, 603556804, 603556820, 603556838, 603556846, 603556861

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603560632
Associated Pace Samples:
603556606 603556614 603556655 603556747

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.6	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Ac[illegible]e	ug/kg	9.6	20	2
2[illegible]none	ug/kg	ND	10	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603560632
Associated Pace Samples:

603556606 603556614 603556655 603556747

Parameter	Units	Method Blank Result	PRL	Footnotes
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	105		
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	110		

BLANK: 603604919
Associated Pace Samples:

603556754 603556804 603556820 603556838 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	2.0	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1 2-Tetrachloroethane	ug/kg	ND	5	
H. ilorobutadiene	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603604919
Associated Pace Samples:
603556754 603556804 603556820 603556838 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Acetone	ug/kg	15	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	99		
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	99		
1,2-Dichloroethane-d4 (S)	%	98		

METHOD BLANK: 603683848
Associated Pace Samples:
603556697 603556705 603556713 603556721 603556739

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	3.6	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O [illegible]ene (1,2-Dimethylbenzene)	ug/kg	ND	5	
S[illegible]ne	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603683848
Associated Pace Samples:
603556697 603556705 603556713 603556721 603556739

Parameter	Units	Method Blank Result	PRL	Footnotes
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	12	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	84		
Toluene-d8 (S)	%	98		
[illegible]ofluorobenzene (S)	%	97		
[illegible]chloroethane-d4 (S)	%	102		

METHOD BLANK: 603683855
Associated Pace Samples:
603556846

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.7	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1[illegible]2-Tetrachloroethane	ug/kg	ND	5	
[illegible]enzene	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603683855
Associated Pace Samples:
603556846

Parameter	Units	Method Blank Result	PRL	Footnotes
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	18	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
[illegible]ofluoromethane (S)	%	84		
[illegible]ene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
1,2-Dichloroethane-d4 (S)	%	99		

METHOD BLANK: 603683913
Associated Pace Samples:
603556622

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.2	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
T[illegible]chloroethene	ug/kg	ND	5	
C[illegible]benzene	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603683913
Associated Pace Samples:
603556622

Parameter	Units	Method Blank Result	PRL	Footnotes
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	19	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
[illegible] (Total)	ug/kg	ND	5	
[illegible] Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	86		
Toluene-d8 (S)	%	96		
4-Bromofluorobenzene (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	99		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603598855 603598863

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	64.02	61.97	96.8	63.84	99.7	3	
Benzene	ug/kg	0	64.02	63.06	98.5	63.66	99.4	1	
Trichloroethene	ug/kg	0	64.02	57.41	89.7	57.97	90.6	1	
Toluene	ug/kg	0	64.02	65.17	102	66.86	104	3	
Chlorobenzene	ug/kg	0	64.02	63.37	99.0	64.75	101	2	
Dibromofluoromethane (S)					98		97		
Toluene-d8 (S)					101		101		
4-Bromofluorobenzene (S)					106		106		

LABORATORY CONTROL SAMPLE: 603560640

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
C[illegible]methane	ug/kg	50	46.93	93.9	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603560640

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Vinyl Chloride	ug/kg	50	47.00	94.0	
Chloroethane	ug/kg	50	47.15	94.3	
Methylene Chloride	ug/kg	50	47.16	94.3	
1,1-Dichloroethene	ug/kg	50	47.29	94.6	
trans-1,2-Dichloroethene	ug/kg	50	47.29	94.6	
cis-1,2-Dichloroethene	ug/kg	50	48.19	96.4	
1,1,1-Trichloroethane	ug/kg	50	47.38	94.8	
Benzene	ug/kg	50	47.60	95.2	
1,2-Dichloroethane	ug/kg	50	47.81	95.6	
Trichloroethene	ug/kg	50	47.37	94.7	
Toluene	ug/kg	50	48.18	96.4	
Tetrachloroethene	ug/kg	50	46.96	93.9	
Chlorobenzene	ug/kg	50	47.61	95.2	
1,1,1,2-Tetrachloroethane	ug/kg	50	47.82	95.6	
[illegible]enzene	ug/kg	50	48.19	96.4	
[illegible]ene (1,2-Dimethylbenzene)	ug/kg	50	47.60	95.2	
Styrene	ug/kg	50	47.82	95.6	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.98	94.0	
Hexachlorobutadiene	ug/kg	50	46.86	93.7	
Dibromofluoromethane (S)				101	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				102	
1,2-Dichloroethane-d4 (S)				100	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603564253
Associated Pace Samples:

603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556747 603556754 603556804 603556820 603556838
603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Ni[illegible]benzene-d5 (S)	%	73		
[illegible]robiphenyl (S)	%	74		
[illegible]erphenyl-d14 (S)	%	81		
Phenol-d6 (S)	%	78		
2-Fluorophenol (S)	%	79		
2,4,6-Tribromophenol (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603564261 603564279

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	3192	2214	69.3	2238	70.2	1	
1,4-Dichlorobenzene	ug/kg	0	2128	1316	61.8	1357	63.8	3	
Acenaphthene	ug/kg	0	2128	1513	71.1	1530	72.0	1	
2,4-Dinitrotoluene	ug/kg	0	2128	1761	82.7	1806	84.9	3	
Pyrene	ug/kg	0	2128	1777	83.5	1815	85.4	2	
Nitrobenzene-d5 (S)					71		72		
2-Fluorobiphenyl (S)					68		72		
Terphenyl-d14 (S)					78		78		
Phenol-d6 (S)					75		77		
2-Fluorophenol (S)					73		75		
2,4,6-Tribromophenol (S)					85		90		

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85011
QC Batch Method: EPA 3550 Sonication
Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

METHOD BLANK: 603564253
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
P' ıthrene	ug/kg	ND	330	
A. ıcene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603564253
Associated Pace Samples:

603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556747 603556754 603556804 603556820 603556838
603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	73		
2-Fluorobiphenyl (S)	%	74		
Terphenyl-d14 (S)	%	81		
Phenol-d6 (S)	%	78		
2-Fluorophenol (S)	%	79		
2,4,6-Tribromophenol (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603564261 603564279

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	3192	2214	69.3	2238	70.2	1	
1,4-Dichlorobenzene	ug/kg	0	2128	1316	61.8	1357	63.8	3	
Acenaphthene	ug/kg	0	2128	1513	71.1	1530	72.0	1	
2,4-Dinitrotoluene	ug/kg	0	2128	1761	82.7	1806	84.9	3	
Pyrene	ug/kg	0	2128	1777	83.5	1815	85.4	2	
Nitrobenzene-d5 (S)					71		72		
2-Fluorobiphenyl (S)					68		72		
Terphenyl-d14 (S)					78		78		
Phenol-d6 (S)					75		77		
2-Fluorophenol (S)					73		75		
2,4,6-Tribromophenol (S)					85		90		

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603564287

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1737	69.5	
1,4-Dichlorobenzene	ug/kg	1667	1081	64.9	
Acenaphthene	ug/kg	1667	1208	72.5	
2,4-Dinitrotoluene	ug/kg	1667	1402	84.1	
Pyrene	ug/kg	1667	1457	87.4	
Nitrobenzene-d5 (S)				71	
2-Fluorobiphenyl (S)				75	
Terphenyl-d14 (S)				80	
Phenol-d6 (S)				78	
2-Fluorophenol (S)				75	
2,4,6-Tribromophenol (S)				90	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85067
QC Batch Method: EPA 7196 Modified
Analysis Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

METHOD BLANK: 603566068
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603566076

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	0.9219	1.280	0.5249	-31.0	3

LABORATORY CONTROL SAMPLE: 603556092

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	1.010	101	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

SAMPLE DUPLICATE: 603566084

Parameter	Units	603556747	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	0.9220	0.3970	0	4

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85108
Analysis Method: EPA 9030A
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil

METHOD BLANK: 603567975
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	5	

MATRIX SPIKE: 603567983

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	20.49	640.2	604.3	91.2	

LABORATORY CONTROL SAMPLE: 603568007

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	500	485.0	97.0	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

SAMPLE DUPLICATE: 603567991

Parameter	Units	603556747	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	20.50	24.00	16	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85177
Analysis Method: EPA 8151
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 3550
Analysis Description: Chlorinated Herbicides

METHOD BLANK: 603570730
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/kg	ND	40	
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	90		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603570748 603570755

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	3.543	425.5	350.8	81.6	344.8	80.2	2	
2,4,5-TP(Silvex)	ug/kg	0	42.55	40.03	94.1	39.35	92.4	2	
Dichlorophenyl Acetic Acid (S)					97		91		

LABORATORY CONTROL SAMPLE: 603570763

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	250.6	75.2	
2 TP(Silvex)	ug/kg	33.33	29.77	89.3	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603570763

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Dichlorophenyl Acetic Acid (S)				94	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85199
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples:

603556606	603556614	603556622	603556655	603556697
603556705	603556713	603556721	603556739	603556754
603556804	603556820	603556838	603556846	603556861

SAMPLE DUPLICATE: 603572082

Parameter	Units	603556606	Dup. Result	RPD	Footnotes
Moisture	%	19.40	19.30	0	

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QUALITY CONTROL DATA

Deffenbaugh Industries
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Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85199
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples:

603556606	603556614	603556622	603556655	603556697
603556705	603556713	603556721	603556739	603556754
603556804	603556820	603556838	603556846	603556861

SAMPLE DUPLICATE: 603572082

Parameter	Units	603556606	Dup. Result	RPD	Footnotes
Moisture	%	19.40	19.30	0	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85400
Analysis Method: EPA 6010
Associated Pace Samples:

QC Batch Method: EPA 3050
Analysis Description: Metals-Standard ICP, Soil

603556606	603556614	603556622	603556655	603556697
603556705	603556713	603556721	603556739	603556747
603556754	603556804	603556820	603556838	603556846
603556861				

METHOD BLANK: 603581323
Associated Pace Samples:

603556606	603556614	603556622	603556655	603556697	603556705	603556713
603556721	603556739	603556747	603556754	603556804	603556820	603556838
603556846	603556861					

Parameter	Units	Method Blank Result	PRL	Footnotes
Aluminum	mg/kg	2.82	7.35	2
Antimony	mg/kg	ND	4.9	
Arsenic	mg/kg	ND	8.33	
Barium	mg/kg	0.285	0.392	2
Beryllium	mg/kg	ND	0.098	
Cadmium	mg/kg	0.0606	0.49	2
Calcium	mg/kg	8.29	9.8	2
Chromium	mg/kg	ND	0.686	
Cobalt	mg/kg	0.199	0.686	2
Copper	mg/kg	ND	0.98	
Iron	mg/kg	7.8	3.92	
Lead	mg/kg	0.255	4.9	2
Magnesium	mg/kg	1.16	4.9	2
Manganese	mg/kg	0.219	0.686	2
Nickel	mg/kg	0.144	2.94	2
Potassium	mg/kg	12.3	98	2
Silver	mg/kg	ND	0.686	
Vanadium	mg/kg	0.173	1.18	2
Zinc	mg/kg	3.13	9.8	2
T[illegible]	mg/kg	2.61	24.5	2

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581331 603581349

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	15310	1268	19170	304	18340	248	20	
Antimony	mg/kg	0	126.8	30.53	24.1	23.16	19.0	24	
Arsenic	mg/kg	14.65	126.8	132.5	93.0	125.7	91.1	2	
Barium	mg/kg	261.4	126.8	396.5	107	397.7	112	5	
Beryllium	mg/kg	0.7249	12.68	13.41	100	12.72	98.4	2	
Cadmium	mg/kg	0.006402	12.68	11.74	92.6	11.19	91.7	1	
Calcium	mg/kg	3623	1268	4992	108	5032	116	7	
Chromium	mg/kg	17.08	126.8	143.6	99.8	135.2	96.9	3	
Cobalt	mg/kg	12.12	126.8	134.3	96.4	127.9	95.0	1	
Copper	mg/kg	17.27	126.8	148.0	103	140.9	101	2	
Iron	mg/kg	22240	1268	24300	162	24180	160	2	
Lead	mg/kg	13.42	126.8	136.0	96.7	130.0	95.6	1	
Magnesium	mg/kg	3969	1268	5505	121	5327	111	8	
Manganese	mg/kg	771.5	126.8	1232	363	1311	442	20	
[illegible]	mg/kg	25.73	126.8	150.9	98.7	144.0	97.0	2	
[illegible]um	mg/kg	1777	1268	3160	109	2954	96.5	12	
Silver	mg/kg	0	12.68	7.829	61.8	7.375	60.5	2	
Vanadium	mg/kg	39.27	126.8	166.4	100	156.6	96.2	4	
Zinc	mg/kg	78.70	126.8	192.5	89.7	186.4	88.3	2	
Tin	mg/kg	0.2775	126.8	1103	870	1046	858	1	

LABORATORY CONTROL SAMPLE: 603581356

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	980.4	941.1	96.0	
Antimony	mg/kg	98.04	95.19	97.1	
Arsenic	mg/kg	98.04	94.50	96.4	
Barium	mg/kg	98.04	98.40	100	
Beryllium	mg/kg	9.804	10.12	103	
Cadmium	mg/kg	9.804	9.587	97.8	
Calcium	mg/kg	980.4	999.7	102	
Chromium	mg/kg	98.04	100.6	103	
Cobalt	mg/kg	98.04	100.1	102	
Copper	mg/kg	98.04	99.19	101	
Iron	mg/kg	980.4	982.9	100	
Lead	mg/kg	98.04	99.81	102	
Magnesium	mg/kg	980.4	955.5	97.5	
Manganese	mg/kg	98.04	100.4	102	
N[illegible]	mg/kg	98.04	101.8	104	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603581356

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Potassium	mg/kg	980.4	980.7	100	
Silver	mg/kg	9.804	8.845	90.2	
Vanadium	mg/kg	98.04	99.38	101	
Zinc	mg/kg	98.04	92.19	94.0	
Tin	mg/kg	98.04	963.8	983	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85401
Analysis Method: EPA 9010A
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil

METHOD BLANK: 603581364
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581372 603581380

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0	12.8	6.914	54.0	12.29	96.0	56	5

LABORATORY CONTROL SAMPLE: 603581398

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	10.10	101	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85407
Analysis Method: EPA 7471
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS

METHOD BLANK: 603581570
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581588 603581596

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.06978	2.134	2.114	95.8	2.090	94.7	1	

LABORATORY CONTROL SAMPLE: 603581604

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.606	96.3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The MSD recovery information is not available due to a preparation problem. The LCS demonstrates successful recovery of this QA/QC group.
[2]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[3]	Matrix spike outside of control limits due to turbidity of sample.
[4]	RPD outside of control limits due to turbidity of samples.
[5]	MS/MSD RPD outlier.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556606	EX13 MIDDLE	EPA 3050	84852	EPA 7841	85771
603556614	EX14 BASE	EPA 3050	84852	EPA 7841	85771
603556622	EX14 SURFACE	EPA 3050	84852	EPA 7841	85771
603556655	DUP	EPA 3050	84852	EPA 7841	85771
603556697	EX2	EPA 3050	84852	EPA 7841	85771
603556705	EX3	EPA 3050	84852	EPA 7841	85771
603556713	EX5	EPA 3050	84852	EPA 7841	85771
603556721	EX6 SURFACE	EPA 3050	84852	EPA 7841	85771
603556739	EX8 SURFACE	EPA 3050	84852	EPA 7841	85771
603556747	EX8 BASE	EPA 3050	84852	EPA 7841	85771
603556754	EX8 MIDDLE	EPA 3050	84852	EPA 7841	85771
603556804	EX9	EPA 3050	84852	EPA 7841	85771
603556820	EX10	EPA 3050	84852	EPA 7841	85771
603556838	EX12 SURFACE	EPA 3050	84852	EPA 7841	85771
603556846	EX13 SURFACE	EPA 3050	84852	EPA 7841	85771
603556861	EX13 BASE	EPA 3050	84852	EPA 7841	85771
603556606	EX13 MIDDLE	EPA 3550	84909	EPA 8082	84994
603556614	EX14 BASE	EPA 3550	84909	EPA 8082	84994
603556622	EX14 SURFACE	EPA 3550	84909	EPA 8082	84994
603556655	DUP	EPA 3550	84909	EPA 8082	84994
603556697	EX2	EPA 3550	84909	EPA 8082	84994
603556705	EX3	EPA 3550	84909	EPA 8082	84994
603556713	EX5	EPA 3550	84909	EPA 8082	84994
603556721	EX6 SURFACE	EPA 3550	84909	EPA 8082	84994
603556739	EX8 SURFACE	EPA 3550	84909	EPA 8082	84994
603556747	EX8 BASE	EPA 3550	84909	EPA 8082	84994
603556754	EX8 MIDDLE	EPA 3550	84909	EPA 8082	84994
603556804	EX9	EPA 3550	84909	EPA 8082	84994
603556820	EX10	EPA 3550	84909	EPA 8082	84994
603556838	EX12 SURFACE	EPA 3550	84909	EPA 8082	84994

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556846	EX13 SURFACE	EPA 3550	84909	EPA 8082	84994
603556861	EX13 BASE	EPA 3550	84909	EPA 8082	84994
603556606	EX13 MIDDLE	EPA 3550	84910	EPA 8081A	84993
603556614	EX14 BASE	EPA 3550	84910	EPA 8081A	84993
603556622	EX14 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556655	DUP	EPA 3550	84910	EPA 8081A	84993
603556697	EX2	EPA 3550	84910	EPA 8081A	84993
603556705	EX3	EPA 3550	84910	EPA 8081A	84993
603556713	EX5	EPA 3550	84910	EPA 8081A	84993
603556721	EX6 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556739	EX8 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556747	EX8 BASE	EPA 3550	84910	EPA 8081A	84993
603556754	EX8 MIDDLE	EPA 3550	84910	EPA 8081A	84993
603556804	EX9	EPA 3550	84910	EPA 8081A	84993
603556820	EX10	EPA 3550	84910	EPA 8081A	84993
603556838	EX12 SURFACE	EPA 3550	84910	EPA 8081A	84993
3556846	EX13 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556861	EX13 BASE	EPA 3550	84910	EPA 8081A	84993
603556606	EX13 MIDDLE	EPA 8260	84931		
603556614	EX14 BASE	EPA 8260	84931		
603556622	EX14 SURFACE	EPA 8260	84931		
603556655	DUP	EPA 8260	84931		
603556697	EX2	EPA 8260	84931		
603556705	EX3	EPA 8260	84931		
603556713	EX5	EPA 8260	84931		
603556721	EX6 SURFACE	EPA 8260	84931		
603556739	EX8 SURFACE	EPA 8260	84931		
603556747	EX8 BASE	EPA 8260	84931		
603556754	EX8 MIDDLE	EPA 8260	84931		
603556804	EX9	EPA 8260	84931		
603556820	EX10	EPA 8260	84931		
603556838	EX12 SURFACE	EPA 8260	84931		
603556846	EX13 SURFACE	EPA 8260	84931		
603556861	EX13 BASE	EPA 8260	84931		
603556747	EX8 BASE		84990		
603556606	EX13 MIDDLE	EPA 3550 Sonication	85011	EPA 8270	85737
603556614	EX14 BASE	EPA 3550 Sonication	85011	EPA 8270	85737
603556622	EX14 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
3556655	DUP	EPA 3550 Sonication	85011	EPA 8270	85737

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556697	EX2	EPA 3550 Sonication	85011	EPA 8270	85737
603556705	EX3	EPA 3550 Sonication	85011	EPA 8270	85737
603556713	EX5	EPA 3550 Sonication	85011	EPA 8270	85737
603556721	EX6 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556739	EX8 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556747	EX8 BASE	EPA 3550 Sonication	85011	EPA 8270	85737
603556754	EX8 MIDDLE	EPA 3550 Sonication	85011	EPA 8270	85737
603556804	EX9	EPA 3550 Sonication	85011	EPA 8270	85737
603556820	EX10	EPA 3550 Sonication	85011	EPA 8270	85737
603556838	EX12 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556846	EX13 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556861	EX13 BASE	EPA 3550 Sonication	85011	EPA 8270	85737
603556606	EX13 MIDDLE	EPA 7196 Modified	85067		
603556614	EX14 BASE	EPA 7196 Modified	85067		
603556622	EX14 SURFACE	EPA 7196 Modified	85067		
603556655	DUP	EPA 7196 Modified	85067		
603556697	EX2	EPA 7196 Modified	85067		
603556705	EX3	EPA 7196 Modified	85067		
603556713	EX5	EPA 7196 Modified	85067		
603556721	EX6 SURFACE	EPA 7196 Modified	85067		
603556739	EX8 SURFACE	EPA 7196 Modified	85067		
603556747	EX8 BASE	EPA 7196 Modified	85067		
603556754	EX8 MIDDLE	EPA 7196 Modified	85067		
603556804	EX9	EPA 7196 Modified	85067		
603556820	EX10	EPA 7196 Modified	85067		
603556838	EX12 SURFACE	EPA 7196 Modified	85067		
603556846	EX13 SURFACE	EPA 7196 Modified	85067		
603556861	EX13 BASE	EPA 7196 Modified	85067		
603556606	EX13 MIDDLE	EPA 9030A	85108		
603556614	EX14 BASE	EPA 9030A	85108		
603556622	EX14 SURFACE	EPA 9030A	85108		
603556655	DUP	EPA 9030A	85108		
603556697	EX2	EPA 9030A	85108		
603556705	EX3	EPA 9030A	85108		
603556713	EX5	EPA 9030A	85108		
603556721	EX6 SURFACE	EPA 9030A	85108		
603556739	EX8 SURFACE	EPA 9030A	85108		
603556747	EX8 BASE	EPA 9030A	85108		
603556754	EX8 MIDDLE	EPA 9030A	85108		
603556804	EX9	EPA 9030A	85108		
603556820	EX10	EPA 9030A	85108		

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556838	EX12 SURFACE	EPA 9030A	85108		
603556846	EX13 SURFACE	EPA 9030A	85108		
603556861	EX13 BASE	EPA 9030A	85108		
603556606	EX13 MIDDLE	EPA 3550	85177	EPA 8151	85429
603556614	EX14 BASE	EPA 3550	85177	EPA 8151	85429
603556622	EX14 SURFACE	EPA 3550	85177	EPA 8151	85429
603556655	DUP	EPA 3550	85177	EPA 8151	85429
603556697	EX2	EPA 3550	85177	EPA 8151	85429
603556705	EX3	EPA 3550	85177	EPA 8151	85429
603556713	EX5	EPA 3550	85177	EPA 8151	85429
603556721	EX6 SURFACE	EPA 3550	85177	EPA 8151	85429
603556739	EX8 SURFACE	EPA 3550	85177	EPA 8151	85429
603556747	EX8 BASE	EPA 3550	85177	EPA 8151	85429
603556754	EX8 MIDDLE	EPA 3550	85177	EPA 8151	85429
603556804	EX9	EPA 3550	85177	EPA 8151	85429
603556820	EX10	EPA 3550	85177	EPA 8151	85429
3556838	EX12 SURFACE	EPA 3550	85177	EPA 8151	85429
603556846	EX13 SURFACE	EPA 3550	85177	EPA 8151	85429
603556861	EX13 BASE	EPA 3550	85177	EPA 8151	85429
603556606	EX13 MIDDLE		85199		
603556614	EX14 BASE		85199		
603556622	EX14 SURFACE		85199		
603556655	DUP		85199		
603556697	EX2		85199		
603556705	EX3		85199		
603556713	EX5		85199		
603556721	EX6 SURFACE		85199		
603556739	EX8 SURFACE		85199		
603556754	EX8 MIDDLE		85199		
603556804	EX9		85199		
603556820	EX10		85199		
603556838	EX12 SURFACE		85199		
603556846	EX13 SURFACE		85199		
603556861	EX13 BASE		85199		
603556606	EX13 MIDDLE	EPA 3050	85400	EPA 6010	85896
603556614	EX14 BASE	EPA 3050	85400	EPA 6010	85896
603556622	EX14 SURFACE	EPA 3050	85400	EPA 6010	85896
603556655	DUP	EPA 3050	85400	EPA 6010	85896
603556697	EX2	EPA 3050	85400	EPA 6010	85896
3556705	EX3	EPA 3050	85400	EPA 6010	85896

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556713	EX5	EPA 3050	85400	EPA 6010	85896
603556721	EX6 SURFACE	EPA 3050	85400	EPA 6010	85896
603556739	EX8 SURFACE	EPA 3050	85400	EPA 6010	85896
603556747	EX8 BASE	EPA 3050	85400	EPA 6010	85896
603556754	EX8 MIDDLE	EPA 3050	85400	EPA 6010	85896
603556804	EX9	EPA 3050	85400	EPA 6010	85896
603556820	EX10	EPA 3050	85400	EPA 6010	85896
603556838	EX12 SURFACE	EPA 3050	85400	EPA 6010	85896
603556846	EX13 SURFACE	EPA 3050	85400	EPA 6010	85896
603556861	EX13 BASE	EPA 3050	85400	EPA 6010	85896
603556606	EX13 MIDDLE	EPA 9010A	85401		
603556614	EX14 BASE	EPA 9010A	85401		
603556622	EX14 SURFACE	EPA 9010A	85401		
603556655	DUP	EPA 9010A	85401		
603556697	EX2	EPA 9010A	85401		
603556705	EX3	EPA 9010A	85401		
603556713	EX5	EPA 9010A	85401		
603556721	EX6 SURFACE	EPA 9010A	85401		
603556739	EX8 SURFACE	EPA 9010A	85401		
603556747	EX8 BASE	EPA 9010A	85401		
603556754	EX8 MIDDLE	EPA 9010A	85401		
603556804	EX9	EPA 9010A	85401		
603556820	EX10	EPA 9010A	85401		
603556838	EX12 SURFACE	EPA 9010A	85401		
603556846	EX13 SURFACE	EPA 9010A	85401		
603556861	EX13 BASE	EPA 9010A	85401		
603556606	EX13 MIDDLE	EPA 7471	85407		
603556614	EX14 BASE	EPA 7471	85407		
603556622	EX14 SURFACE	EPA 7471	85407		
603556655	DUP	EPA 7471	85407		
603556697	EX2	EPA 7471	85407		
603556705	EX3	EPA 7471	85407		
603556713	EX5	EPA 7471	85407		
603556721	EX6 SURFACE	EPA 7471	85407		
603556739	EX8 SURFACE	EPA 7471	85407		
603556747	EX8 BASE	EPA 7471	85407		
603556754	EX8 MIDDLE	EPA 7471	85407		
603556804	EX9	EPA 7471	85407		
603556820	EX10	EPA 7471	85407		
603556838	EX12 SURFACE	EPA 7471	85407		
603556846	EX13 SURFACE	EPA 7471	85407		

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DATE: 07/27/00
PAGE: 100

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556861	EX13 BASE	EPA 7471	85407		

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August 16, 2000

Mr. MICK COSSAIRT
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Dear Mr. COSSAIRT:

Enclosed are the analytical results for sample(s)received by the laboratory on July 14, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 08/16/00
PAGE: 1

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

Solid results are reported on a dry weight basis

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
M-`-ls-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
..minum	14600	mg/kg	8.04	0.94	07/27/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.36	0.94	07/27/00	JAH	7440-36-0	
Arsenic	ND	mg/kg	9.11	0.94	07/27/00	JAH	7440-38-2	
Barium	448	mg/kg	0.429	0.94	07/27/00	JAH	7440-39-3	
Beryllium	0.711	mg/kg	0.107	0.94	07/27/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.536	0.94	07/27/00	JAH	7440-43-9	
Calcium	8490	mg/kg	10.7	0.94	07/27/00	JAH	7440-70-2	
Chromium	21.1	mg/kg	0.75	0.94	07/27/00	JAH	7440-47-3	
Cobalt	11.5	mg/kg	0.75	0.94	07/27/00	JAH	7440-48-4	
Copper	26	mg/kg	1.07	0.94	07/27/00	JAH	7440-50-8	
Iron	19500	mg/kg	4.29	0.94	07/27/00	JAH	7439-89-6	
Lead	15.8	mg/kg	5.36	0.94	07/27/00	JAH	7439-92-1	
Magnesium	4330	mg/kg	5.36	0.94	07/27/00	JAH	7439-95-4	
Manganese	464	mg/kg	0.75	0.94	07/27/00	JAH	7439-96-5	
Nickel	25.2	mg/kg	3.21	0.94	07/27/00	JAH	7440-02-0	
Potassium	2190	mg/kg	107	0.94	07/27/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.75	0.94	07/27/00	JAH	7440-22-4	
Vanadium	35.1	mg/kg	1.29	0.94	07/27/00	JAH	7440-62-2	
Zinc	70.4	mg/kg	10.7	0.94	07/27/00	JAH	7440-66-6	
Tin	ND	mg/kg	26.8	0.94	07/27/00	JAH	7440-31-5	
Date Digested					07/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.177	1.00	07/27/00	SYW	7439-97-6	
..ium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.531	0.93	07/26/00	JAH	7440-28-0	
Date Digested					07/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	2.08	mg/kg	0.115	0.10	07/31/00	WOC	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.15	1.00	07/28/00	WOC	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	3170	mg/kg	0.229	0.04	07/31/00	PLH		
s Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	12.8	%		0.87	07/20/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.3	1.00	07/25/00	JLO	319-85-7	
gamma-BHC (Lindane)	0.31	ug/kg	1.5	1.00	07/25/00	JLO	58-89-9	1
Heptachlor	ND	ug/kg	1.1	1.00	07/25/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	3.8	1.00	07/25/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	84	%		0.87	07/25/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	92	%		0.87	07/25/00	JLO	877-09-8	
Date Extracted					07/17/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	200	ug/kg	38	1.00	07/24/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	84	%		0.87	07/24/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	70	%		0.87	07/24/00	JLO	877-09-8	
Date Extracted					07/17/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	11	ug/kg	46	0.99	07/25/00	JLO	94-75-7	1
2,4,5-TP(Silvex)	1.1	ug/kg	17	0.99	07/25/00	JLO	93-72-1	1
hlorophenyl Acetic Acid (S)	39	%		0.87	07/25/00	JLO		

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					07/24/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.7	1.00	07/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	75-00-3	
Methylene Chloride	4.3	ug/kg	5.7	1.00	07/26/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	71-55-6	
nzene	ND	ug/kg	5.7	1.00	07/26/00	NLA	71-43-2	
:-Dichloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.7	1.00	07/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.7	1.00	07/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.7	1.00	07/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.7	1.00	07/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.7	1.00	07/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	5.7	1.00	07/26/00	NLA	87-68-3	
Acetone	ND	ug/kg	23	1.00	07/26/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	11	1.00	07/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	07/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	07/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	07/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.7	1.00	07/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	57	1.00	07/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	95	%		0.87	07/26/00	NLA	1868-53-7	
Toluene-d8 (S)	96	%		0.87	07/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	97	%		0.87	07/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%		0.87	07/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

olatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	370	0.99	07/28/00	MSR	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	95-50-1	
2-Methylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	95-48-7	
4-Methylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	106-44-5	
Hexachloroethane	ND	ug/kg	370	0.99	07/28/00	MSR	67-72-1	
Nitrobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	105-67-9	
Benzoic Acid	ND	ug/kg	1800	0.99	07/28/00	MSR	65-85-0	
Naphthalene	ND	ug/kg	370	0.99	07/28/00	MSR	91-20-3	
Hexachlorobutadiene	ND	ug/kg	370	0.99	07/28/00	MSR	87-68-3	
2-Methylnaphthalene	86	ug/kg	370	0.99	07/28/00	MSR	91-57-6	1
Acenaphthene	ND	ug/kg	370	0.99	07/28/00	MSR	83-32-9	
benzofuran	ND	ug/kg	370	0.99	07/28/00	MSR	132-64-9	
-Dinitrotoluene	ND	ug/kg	370	0.99	07/28/00	MSR	121-14-2	
Fluorene	ND	ug/kg	370	0.99	07/28/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	370	0.99	07/28/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	118-74-1	
Phenanthrene	52	ug/kg	370	0.99	07/28/00	MSR	85-01-8	1
Anthracene	54	ug/kg	370	0.99	07/28/00	MSR	120-12-7	1
Di-n-butylphthalate	ND	ug/kg	370	0.99	07/28/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	370	0.99	07/28/00	MSR	206-44-0	
Pyrene	ND	ug/kg	370	0.99	07/28/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	370	0.99	07/28/00	MSR	85-68-7	
Benzo(a)anthracene	ND	ug/kg	370	0.99	07/28/00	MSR	56-55-3	
Chrysene	ND	ug/kg	370	0.99	07/28/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	370	0.99	07/28/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	108-39-4	
Pyridine	ND	ug/kg	370	0.99	07/28/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	67	%		0.87	07/28/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	79	%		0.87	07/28/00	MSR	321-60-8	
Terphenyl-d14 (S)	64	%		0.87	07/28/00	MSR	1718-51-0	
Phenol-d6 (S)	78	%		0.87	07/28/00	MSR	13127-88-3	
2-Fluorophenol (S)	68	%		0.87	07/28/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	64	%		0.87	07/28/00	MSR	118-79-6	
Date Extracted					07/25/00			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	9690	mg/kg	7.73	0.94	07/27/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.15	0.94	07/27/00	JAH	7440-36-0	
Arsenic	10.4	mg/kg	8.76	0.94	07/27/00	JAH	7440-38-2	
Barium	169	mg/kg	0.412	0.94	07/27/00	JAH	7440-39-3	
Beryllium	0.526	mg/kg	0.103	0.94	07/27/00	JAH	7440-41-7	
Cadmium	0.563	mg/kg	0.515	0.94	07/27/00	JAH	7440-43-9	
Calcium	169000	mg/kg	103	9.35	07/27/00	JAH	7440-70-2	3
Chromium	18.1	mg/kg	0.721	0.94	07/27/00	JAH	7440-47-3	
Cobalt	6.43	mg/kg	0.721	0.94	07/27/00	JAH	7440-48-4	
Copper	22.4	mg/kg	1.03	0.94	07/27/00	JAH	7440-50-8	
Iron	14100	mg/kg	4.12	0.94	07/27/00	JAH	7439-89-6	
Lead	141	mg/kg	5.15	0.94	07/27/00	JAH	7439-92-1	
Magnesium	5220	mg/kg	5.15	0.94	07/27/00	JAH	7439-95-4	
Manganese	535	mg/kg	0.721	0.94	07/27/00	JAH	7439-96-5	
Nickel	17.2	mg/kg	3.09	0.94	07/27/00	JAH	7440-02-0	
Potassium	1520	mg/kg	103	0.94	07/27/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.721	0.94	07/27/00	JAH	7440-22-4	
Vanadium	24	mg/kg	1.24	0.94	07/27/00	JAH	7440-62-2	
Zinc	116	mg/kg	10.3	0.94	07/27/00	JAH	7440-66-6	
Tin	ND	mg/kg	25.8	0.94	07/27/00	JAH	7440-31-5	
Date Digested					07/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.17	1.00	07/27/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.51	0.93	07/26/00	JAH	7440-28-0	
Date Digested					07/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.584	mg/kg	0.11	0.10	07/31/00	WOC	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.1	1.00	07/28/00	WOC	57-12-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	1740	mg/kg	0.221	0.04	07/31/00	PLH		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	9.3	%		0.91	07/20/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	22	10.0	07/25/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	15	10.0	07/25/00	JLO	58-89-9	
›tachlor	ND	ug/kg	11	10.0	07/25/00	JLO	76-44-8	
›tachlor Epoxide	ND	ug/kg	36	10.0	07/25/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	118	%		0.91	07/25/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	130	%		0.91	07/25/00	JLO	877-09-8	4
Date Extracted					07/17/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	4000	ug/kg	360	9.96	07/24/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	98	%		0.91	07/24/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.91	07/24/00	JLO	877-09-8	
Date Extracted					07/17/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	7.1	ug/kg	43	0.98	07/25/00	JLO	94-75-7	1
2,4,5-TP(Silvex)	1.1	ug/kg	16	0.98	07/25/00	JLO	93-72-1	1
Dichlorophenyl Acetic Acid (S)	65	%		0.91	07/25/00	JLO		
Date Extracted					07/24/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-00-3	
Methylene Chloride	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-09-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-35-4	
›ns-1,2-Dichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	156-60-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.5	1.00	07/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.5	1.00	07/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.5	1.00	07/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.5	1.00	07/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.5	1.00	07/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.5	1.00	07/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.5	1.00	07/26/00	NLA	87-68-3	
etone	ND	ug/kg	22	1.00	07/26/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	11	1.00	07/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	07/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	07/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	07/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.5	1.00	07/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	55	1.00	07/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	98	%		0.91	07/26/00	NLA	1868-53-7	
Toluene-d8 (S)	87	%		0.91	07/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	88	%		0.91	07/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%		0.91	07/26/00	NLA	17060-07-0	5

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	3600	9.99	07/31/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	3600	9.99	07/31/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	18000	9.99	07/31/00	MSR	65-85-0
Naphthalene	ND	ug/kg	3600	9.99	07/31/00	MSR	91-20-3
xachlorobutadiene	ND	ug/kg	3600	9.99	07/31/00	MSR	87-68-3

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	3600	9.99	07/31/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	3600	9.99	07/31/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	3600	9.99	07/31/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3600	9.99	07/31/00	MSR	121-14-2	
Fluorene	ND	ug/kg	3600	9.99	07/31/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	3600	9.99	07/31/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	118-74-1	
Phenanthrene	ND	ug/kg	3600	9.99	07/31/00	MSR	85-01-8	
Anthracene	ND	ug/kg	3600	9.99	07/31/00	MSR	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3600	9.99	07/31/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	3600	9.99	07/31/00	MSR	206-44-0	
Pyrene	ND	ug/kg	3600	9.99	07/31/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	3600	9.99	07/31/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	3600	9.99	07/31/00	MSR	56-55-3	
ysene	ND	ug/kg	3600	9.99	07/31/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3600	9.99	07/31/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	108-39-4	
Pyridine	ND	ug/kg	3600	9.99	07/31/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	86	%		0.91	07/31/00	MSR	4165-60-0	6
2-Fluorobiphenyl (S)	100	%		0.91	07/31/00	MSR	321-60-8	
Terphenyl-d14 (S)	79	%		0.91	07/31/00	MSR	1718-51-0	
Phenol-d6 (S)	99	%		0.91	07/31/00	MSR	13127-88-3	
2-Fluorophenol (S)	85	%		0.91	07/31/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	81	%		0.91	07/31/00	MSR	118-79-6	
Date Extracted					07/25/00			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	17600	mg/kg	9.13	0.99	07/27/00	JAH	7429-90-5	
Antimony	ND	mg/kg	6.09	0.99	07/27/00	JAH	7440-36-0	
Arsenic	12.6	mg/kg	10.3	0.99	07/27/00	JAH	7440-38-2	
Barium	221	mg/kg	0.487	0.99	07/27/00	JAH	7440-39-3	
Beryllium	0.867	mg/kg	0.122	0.99	07/27/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.609	0.99	07/27/00	JAH	7440-43-9	
Calcium	24000	mg/kg	12.2	0.99	07/27/00	JAH	7440-70-2	
Chromium	32.6	mg/kg	0.852	0.99	07/27/00	JAH	7440-47-3	
Cobalt	11.9	mg/kg	0.852	0.99	07/27/00	JAH	7440-48-4	
[illegible]per	27.7	mg/kg	1.22	0.99	07/27/00	JAH	7440-50-8	
[illegible]n	21400	mg/kg	4.87	0.99	07/27/00	JAH	7439-89-6	
Lead	34.4	mg/kg	6.09	0.99	07/27/00	JAH	7439-92-1	
Magnesium	4980	mg/kg	6.09	0.99	07/27/00	JAH	7439-95-4	
Manganese	537	mg/kg	0.852	0.99	07/27/00	JAH	7439-96-5	
Nickel	35.4	mg/kg	3.65	0.99	07/27/00	JAH	7440-02-0	
Potassium	2730	mg/kg	122	0.99	07/27/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.852	0.99	07/27/00	JAH	7440-22-4	
Vanadium	58.4	mg/kg	1.46	0.99	07/27/00	JAH	7440-62-2	
Zinc	125	mg/kg	12.2	0.99	07/27/00	JAH	7440-66-6	
Tin	ND	mg/kg	30.4	0.99	07/27/00	JAH	7440-31-5	
Date Digested					07/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.189	1.00	07/27/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.615	1.00	07/26/00	JAH	7440-28-0	
Date Digested					07/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.49	mg/kg	0.123	0.10	07/31/00	WOC	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
[illegible]nide	ND	mg/kg	1.23	1.00	07/28/00	WOC	57-12-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	491	mg/kg	0.246	0.04	07/31/00	PLH		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.7	%		0.81	07/20/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.4	1.00	07/25/00	JLO	319-85-7	
gamma-BHC (Lindane)	0.84	ug/kg	1.6	1.00	07/25/00	JLO	58-89-9	1
›tachlor	0.89	ug/kg	1.2	1.00	07/25/00	JLO	76-44-8	1
tachlor Epoxide	ND	ug/kg	4.1	1.00	07/25/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.81	07/25/00	JLO	2051-24-3	
Tetracnloro-meta-xylene (S)	91	%		0.81	07/25/00	JLO	877-09-8	
Date Extracted					07/17/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	69	ug/kg	40	0.99	07/24/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	75	%		0.81	07/24/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	64	%		0.81	07/24/00	JLO	877-09-8	
Date Extracted					07/17/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	49	0.99	07/25/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	0.99	07/25/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	43	%		0.81	07/25/00	JLO		
Date Extracted					07/24/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.1	1.00	07/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	75-00-3	
Methylene Chloride	5.1	ug/kg	6.1	1.00	07/26/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	75-35-4	
ns-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	156-60-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	6.1	1.00	07/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.1	1.00	07/26/00	NLA	108-88-3	
Tetrachloroethene	46	ug/kg	6.1	1.00	07/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.1	1.00	07/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	630-20-6	
Ethylbenzene	4.3	ug/kg	6.1	1.00	07/26/00	NLA	100-41-4	1
O-Xylene (1,2-Dimethylbenzene)	26	ug/kg	6.1	1.00	07/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.1	1.00	07/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	79-34-5	
''xachlorobutadiene	ND	ug/kg	6.1	1.00	07/26/00	NLA	87-68-3	
:tone	ND	ug/kg	25	1.00	07/26/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	12	1.00	07/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	07/26/00	NLA	108-10-1	
Carbon Disulfide	4.3	ug/kg	12	1.00	07/26/00	NLA	75-15-0	1
2-Hexanone	ND	ug/kg	120	1.00	07/26/00	NLA	591-78-6	
Xylene (Total)	61	ug/kg	6.1	1.00	07/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	61	1.00	07/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	93	%		0.81	07/26/00	NLA	1868-53-7	
Toluene-d8 (S)	92	%		0.81	07/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	87	%		0.81	07/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%		0.81	07/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	4000	9.86	07/30/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	4000	9.86	07/30/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	19000	9.86	07/30/00	MSR	65-85-0
Naphthalene	ND	ug/kg	4000	9.86	07/30/00	MSR	91-20-3
·achlorobutadiene	ND	ug/kg	4000	9.86	07/30/00	MSR	87-68-3

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	4000	9.86	07/30/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	4000	9.86	07/30/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	4000	9.86	07/30/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	4000	9.86	07/30/00	MSR	121-14-2	
Fluorene	ND	ug/kg	4000	9.86	07/30/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	4000	9.86	07/30/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	118-74-1	
Phenanthrene	ND	ug/kg	4000	9.86	07/30/00	MSR	85-01-8	
Anthracene	ND	ug/kg	4000	9.86	07/30/00	MSR	120-12-7	
Di-n-butylphthalate	ND	ug/kg	4000	9.86	07/30/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	4000	9.86	07/30/00	MSR	206-44-0	
Pyrene	ND	ug/kg	4000	9.86	07/30/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	4000	9.86	07/30/00	MSR	85-68-7	
zo(a)anthracene	ND	ug/kg	4000	9.86	07/30/00	MSR	56-55-3	
ysene	ND	ug/kg	4000	9.86	07/30/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4000	9.86	07/30/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	108-39-4	
Pyridine	ND	ug/kg	4000	9.86	07/30/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	57	%		0.81	07/30/00	MSR	4165-60-0	6
2-Fluorobiphenyl (S)	65	%		0.81	07/30/00	MSR	321-60-8	
Terphenyl-d14 (S)	58	%		0.81	07/30/00	MSR	1718-51-0	
Phenol-d6 (S)	59	%		0.81	07/30/00	MSR	13127-88-3	
2-Fluorophenol (S)	52	%		0.81	07/30/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	54	%		0.81	07/30/00	MSR	118-79-6	
Date Extracted					07/25/00			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651225 Date Collected: 07/13/00 Matrix: Water
Client Sample ID: TRIP BLANK 7/13/2000 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
GC/MS Volatiles								
GC/MS VOCs by 8260 (Low Level)	Method: EPA 8260				Prep Method: EPA 8260			
Vinyl Chloride	ND	ug/l	1	1.00	07/25/00	DJE	75-01-4	
Chloroethane	ND	ug/l	1	1.00	07/25/00	DJE	75-00-3	
Methylene Chloride	2.7	ug/l	1	1.00	07/25/00	DJE	75-09-2	
trans-1,2-Dichloroethene	ND	ug/l	1	1.00	07/25/00	DJE	156-60-5	
1,1-Dichloroethane	ND	ug/l	1	1.00	07/25/00	DJE	75-34-3	
cis-1,2-Dichloroethene	ND	ug/l	1	1.00	07/25/00	DJE	156-59-2	
1,1,1-Trichloroethane	ND	ug/l	1	1.00	07/25/00	DJE	71-55-6	
Benzene	ND	ug/l	1	1.00	07/25/00	DJE	71-43-2	
Trichloroethene	ND	ug/l	1	1.00	07/25/00	DJE	79-01-6	
Toluene	1.1	ug/l	1	1.00	07/25/00	DJE	108-88-3	
Tetrachloroethene	ND	ug/l	1	1.00	07/25/00	DJE	127-18-4	
1,2-Dibromoethane	ND	ug/l	1	1.00	07/25/00	DJE	106-93-4	
Chlorobenzene	ND	ug/l	1	1.00	07/25/00	DJE	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1.00	07/25/00	DJE	630-20-6	
Ethylbenzene	ND	ug/l	1	1.00	07/25/00	DJE	100-41-4	
Xylene (Total)	ND	ug/l	3	1.00	07/25/00	DJE	1330-20-7	
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1.00	07/25/00	DJE	79-34-5	
tert-Butylbenzene	ND	ug/l	1	1.00	07/25/00	DJE	98-06-6	
Hexachlorobutadiene	ND	ug/l	1	1.00	07/25/00	DJE	87-68-3	
Acetone	11	ug/l	10	1.00	07/25/00	DJE	67-64-1	2
Carbon Disulfide	ND	ug/l	10	1.00	07/25/00	DJE	75-15-0	
2-Hexanone	ND	ug/l	10	1.00	07/25/00	DJE	591-78-6	
4-Methyl-2-Pentanone	ND	ug/l	10	1.00	07/25/00	DJE	108-10-1	
M&P-Xylene	ND	ug/l	1.3	1.00	07/25/00	DJE		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/l	1.1	1.00	07/25/00	DJE	95-47-6	
Toluene-d8 (S)	103	%		1.00	07/25/00	DJE	2037-26-5	
Dibromofluoromethane (S)	98	%		1.00	07/25/00	DJE	1868-53-7	
4-Bromofluorobenzene (S)	101	%		1.00	07/25/00	DJE	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%		1.00	07/25/00	DJE	17060-07-0	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[3]	Sample was diluted due to high analyte concentration.
[4]	The sample was diluted due to the presence of PCB-1260. The quantitation limits are adjusted for the dilution.
[5]	One of the internal standards failed the minimum area requirement. The sample was reanalyzed with like results.
[6]	Elevated detection limits due to difficult sample matrix.

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18131 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87068
Analysis Method: EPA 8260
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603683996
Associated Pace Samples:
603650987 603651068 603651100

ter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.1	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
Acetone	ug/kg	ND	20	
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Di fluoromethane (S)	%	100		

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

METHOD BLANK: 603683996
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	101		
1,2-Dichloroethane-d4 (S)	%	101		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603658147 603658154

Parameter	Units	603641820	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	52.43	53.03	101	43.80	83.5	19	
Benzene	ug/kg	0	52.43	52.00	99.2	45.61	87.0	13	
[illegible]roethene	ug/kg	0	52.43	52.53	100	46.09	87.9	13	
[illegible]	ug/kg	0	52.43	49.21	93.9	44.85	85.5	9	
Chlorobenzene	ug/kg	0	52.43	49.29	94.0	45.36	86.5	8	
Dibromofluoromethane (S)					101		102		
Toluene-d8 (S)					101		102		
4-Bromofluorobenzene (S)					91		94		

LABORATORY CONTROL SAMPLE: 603658139

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chloromethane	ug/kg	50	51.16	102	
Vinyl Chloride	ug/kg	50	51.95	104	
Chloroethane	ug/kg	50	51.10	102	
Methylene Chloride	ug/kg	50	51.89	104	
1,1-Dichloroethene	ug/kg	50	52.31	105	
trans-1,2-Dichloroethene	ug/kg	50	51.08	102	
cis-1,2-Dichloroethene	ug/kg	50	51.39	103	
1,1,1-Trichloroethane	ug/kg	50	51.46	103	
Benzene	ug/kg	50	50.67	101	
1,2-Dichloroethane	ug/kg	50	51.56	103	
Trichloroethene	ug/kg	50	52.25	105	
Toluene	ug/kg	50	49.80	99.6	
Tetrachloroethene	ug/kg	50	51.38	103	
Chlorobenzene	ug/kg	50	51.14	102	
1,[illegible]-Tetrachloroethane	ug/kg	50	51.59	103	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603658139

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Ethylbenzene	ug/kg	50	49.80	99.6	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	50	50.60	101	
Styrene	ug/kg	50	50.79	102	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.10	102	
Hexachlorobutadiene	ug/kg	50	49.55	99.1	
Dibromofluoromethane (S)				102	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				101	
1,2-Dichloroethane-d4 (S)				103	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87077
Analysis Method: EPA 8082
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

METHOD BLANK: 603658410
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	96		
Tetrachloro-meta-xylene (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603658436 603658444

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	196.9	380.7	314.4	30.9	399.2	53.2	53	2
Decachlorobiphenyl (S)					77		80		
Tetrachloro-meta-xylene (S)					62		68		

LABORATORY CONTROL SAMPLE: 603658428

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	298.0	89.4	
Decachlorobiphenyl (S)				97	
Tetrachloro-meta-xylene (S)				82	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87078
Analysis Method: EPA 8081A
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 3550
Analysis Description: Organochlorine Pesticides, GC

METHOD BLANK: 603658451
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	78		
Tetrachloro-meta-xylene (S)	%	71		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603658477 603658485

Parameter	Units	603651068	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	18.38	20.02	109	24.18	132	19	
Heptachlor	ug/kg	0	18.38	22.36	122	26.33	143	16	3,4
Decachlorobiphenyl (S)					122		136		
Tetrachloro-meta-xylene (S)					127		162		5

LABORATORY CONTROL SAMPLE: 603658469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	17.35	104	
gamma-BHC (Lindane)	ug/kg	16.67	17.62	106	
Heptachlor	ug/kg	16.67	15.77	94.6	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603658469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Heptachlor Epoxide	ug/kg	16.67	17.25	104	
Decachlorobiphenyl (S)				84	
Tetrachloro-meta-xylene (S)				84	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87241
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples: 603650987 603651068 603651100

SAMPLE DUPLICATE: 603665811

Parameter	Units	603650326	Dup. Result	RPD	Footnotes
Percent Moisture	%	18.40	19.00	3	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87278
QC Batch Method: EPA 3050
Analysis Method: EPA 7841
Analysis Description: Thallium, AAS Furnace
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603666959
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603666967 603666975

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.2483	4.246	1.768	35.8	1.953	39.0	9	

LABORATORY CONTROL SAMPLE: 603666983

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.960	3.823	96.5	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87279
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: Metals-Standard ICP, Soil
Associated Pace Samples: 603650987 603651068 603651100

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603667056 603667064

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	14640	1052	19190	433	21110	587	30	6,7
[illegible]ny	mg/kg	0	105.2	18.62	17.7	9.347	8.50	70	2,8
[illegible]	mg/kg	8.909	105.2	106.8	93.0	113.9	95.3	2	
Barium	mg/kg	447.7	105.2	367.6	-76.2	290.8	-142	61	6,7
Beryllium	mg/kg	0.7111	10.52	11.24	100	11.92	102	2	
Cadmium	mg/kg	0.03397	10.52	9.864	93.5	10.23	92.5	1	
Calcium	mg/kg	8485	1052	9698	115	8797	28.3	121	7
Chromium	mg/kg	21.07	105.2	127.4	101	136.4	105	3	
Cobalt	mg/kg	11.53	105.2	113.4	96.9	119.4	97.8	1	
Copper	mg/kg	25.96	105.2	132.9	102	138.6	102	0	
Iron	mg/kg	19520	1052	22150	250	25780	568	78	6,2
Lead	mg/kg	15.82	105.2	114.2	93.5	121.9	96.2	3	
Magnesium	mg/kg	4334	1052	5932	152	6920	234	43	6,2
Manganese	mg/kg	464.2	105.2	619.3	148	572.9	98.7	40	2
Nickel	mg/kg	25.22	105.2	129.3	98.9	138.8	103	4	
Potassium	mg/kg	2195	1052	3678	141	4098	173	20	9
Silver	mg/kg	0	10.52	6.187	58.8	6.217	56.4	4	8
Vanadium	mg/kg	35.07	105.2	145.3	105	149.2	104	1	
Zinc	mg/kg	70.35	105.2	169.5	94.3	177.0	96.7	3	
Tin	mg/kg	0.1443	105.2	92.77	88.1	95.97	86.9	1	

LABORATORY CONTROL SAMPLE: 603667072

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	980.4	930.2	94.9	
An[illegible]y	mg/kg	98.04	94.92	96.8	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603667072

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Arsenic	mg/kg	98.04	90.51	92.3	
Barium	mg/kg	98.04	97.11	99.1	
Beryllium	mg/kg	9.804	9.744	99.4	
Cadmium	mg/kg	9.804	9.441	96.3	
Calcium	mg/kg	980.4	972.6	99.2	
Chromium	mg/kg	98.04	96.79	98.7	
Cobalt	mg/kg	98.04	97.00	98.9	
Copper	mg/kg	98.04	110.2	112	
Iron	mg/kg	980.4	968.9	98.8	
Lead	mg/kg	98.04	96.81	98.7	
Magnesium	mg/kg	980.4	944.4	96.3	
Manganese	mg/kg	98.04	95.99	97.9	
Nickel	mg/kg	98.04	97.70	99.7	
Potassium	mg/kg	980.4	951.5	97.1	
Silver	mg/kg	9.804	8.655	88.3	
[illegible]m	mg/kg	98.04	97.35	99.3	
Zinc	mg/kg	98.04	90.24	92.0	
Tin	mg/kg	98.04	94.91	96.8	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87516
QC Batch Method: EPA 3550
Analysis Method: EPA 8151
Analysis Description: Chlorinated Herbicides
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603681024
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4	ug/kg	ND	40	
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	27		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603681032 603681040

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	10.76	380.2	227.8	57.1	269.5	69.4	19	10
2,4,5-TP(Silvex)	ug/kg	1.131	38.02	31.36	79.5	33.77	87.5	10	
Dichlorophenyl Acetic Acid (S)					88		90		

LABORATORY CONTROL SAMPLE: 603681057

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	85.45	25.6	
2,4,5-TP(Silvex)	ug/kg	33.33	10.14	30.4	
Dichlorophenyl Acetic Acid (S)				39	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87568
Analysis Method: EPA 8270
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

METHOD BLANK: 603682436
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Phenanthrene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

METHOD BLANK: 603682436
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	67		
2-Fluorobiphenyl (S)	%	78		
Terphenyl-d14 (S)	%	75		
Phenol-d6 (S)	%	76		
2-Fluorophenol (S)	%	75		
2,4,6-Tribromophenol (S)	%	74		

SPIKE & MATRIX SPIKE DUPLICATE: 603682444 603682451

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	2860	1611	56.3	2238	78.6	33	
1,4-Dichlorobenzene	ug/kg	0	1906	1140	59.8	1366	72.0	19	
Acenaphthene	ug/kg	0	1906	1270	66.6	1456	76.8	14	
2,4-Dinitrotoluene	ug/kg	0	1906	1395	73.2	1703	89.8	20	
Pyrene	ug/kg	0	1906	1392	73.0	1730	91.2	22	
Nitrobenzene-d5 (S)					60		74		
2-Fluorobiphenyl (S)					72		84		
Terphenyl-d14 (S)					61		77		
Phenol-d6 (S)					69		82		
2-Fluorophenol (S)					66		82		
2,4,6-Tribromophenol (S)					69		87		

LABORATORY CONTROL SAMPLE: 603682469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1332	53.3	
1,4-Dichlorobenzene	ug/kg	1667	1019	61.2	
Acenaphthene	ug/kg	1667	1137	68.2	
2,4-Dinitrotoluene	ug/kg	1667	1278	76.7	
Pyr	ug/kg	1667	1326	79.6	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603682469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Nitrobenzene-d5 (S)				69	
2-Fluorobiphenyl (S)				81	
Terphenyl-d14 (S)				73	
Phenol-d6 (S)				76	
2-Fluorophenol (S)				67	
2,4,6-Tribromophenol (S)				81	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87604
Analysis Method: EPA 8260
Associated Pace Samples: 603651225

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260 (Low Level)

METHOD BLANK: 603695354
Associated Pace Samples:
603651225

Parameter	Units	Method Blank Result	PRL	Footnotes
[illegible] Chloride	ug/l	ND	1	
Chloroethane	ug/l	ND	1	
Methylene Chloride	ug/l	ND	1	
trans-1,2-Dichloroethene	ug/l	ND	1	
1,1-Dichloroethane	ug/l	ND	1	
cis-1,2-Dichloroethene	ug/l	ND	1	
1,1,1-Trichloroethane	ug/l	ND	1	
Benzene	ug/l	ND	1	
Trichloroethene	ug/l	ND	1	
Toluene	ug/l	ND	1	
Tetrachloroethene	ug/l	ND	1	
1,2-Dibromoethane	ug/l	ND	1	
Chlorobenzene	ug/l	ND	1	
1,1,1,2-Tetrachloroethane	ug/l	ND	1	
Ethylbenzene	ug/l	ND	1	
Xylene (Total)	ug/l	ND	3	
1,1,2,2-Tetrachloroethane	ug/l	ND	1	
tert-Butylbenzene	ug/l	ND	1	
Hexachlorobutadiene	ug/l	ND	1	
Acetone	ug/l	3.0	10	1
Carbon Disulfide	ug/l	ND	10	
2-Hexanone	ug/l	ND	10	
4-Methyl-2-Pentanone	ug/l	ND	10	
M&P-Xylene	ug/l	ND	1.3	
O-[illegible]ne (1,2-Dimethylbenzene)	ug/l	ND	1.1	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

METHOD BLANK: 603695354
Associated Pace Samples:
603651225

Parameter	Units	Method Blank Result	PRL	Footnotes
Toluene-d8 (S)	%	103		
Dibromofluoromethane (S)	%	96		
4-Bromofluorobenzene (S)	%	104		
1,2-Dichloroethane-d4 (S)	%	93		

LABORATORY CONTROL SAMPLE & LCSD: 603684036 603684044

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
Vinyl Chloride	ug/l	10	6.240	62.4	6.784	67.8	8	
Chloroethane	ug/l	10	8.110	81.1	8.885	88.9	9	
[illegible]ne Chloride	ug/l	10	9.496	95.0	10.79	108	13	
trans-1,2-Dichloroethene	ug/l	10	9.913	99.1	9.783	97.8	1	
1,1-Dichloroethane	ug/l	10	9.083	90.8	8.971	89.7	1	
cis-1,2-Dichloroethene	ug/l	10	9.537	95.4	9.601	96.0	1	
1,1,1-Trichloroethane	ug/l	10	9.343	93.4	8.946	89.5	4	
Benzene	ug/l	10	9.683	96.8	9.966	99.7	3	
Trichloroethene	ug/l	10	10.76	108	11.08	111	3	
Toluene	ug/l	10	11.68	117	12.45	125	7	
Tetrachloroethene	ug/l	10	10.41	104	10.36	104	0	
1,2-Dibromoethane	ug/l	10	11.28	113	11.93	119	5	
Chlorobenzene	ug/l	10	10.39	104	10.91	109	5	
1,1,1,2-Tetrachloroethane	ug/l	10	10.71	107	11.19	112	5	
Ethylbenzene	ug/l	10	10.71	107	11.07	111	4	
1,1,2,2-Tetrachloroethane	ug/l	10	9.934	99.3	10.23	102	3	
tert-Butylbenzene	ug/l	10	10.16	102	10.39	104	2	
Hexachlorobutadiene	ug/l	10	8.013	80.1	8.265	82.7	3	
M&P-Xylene	ug/l	20	20.00	100	21.12	106	6	
O-Xylene (1,2-Dimethylbenzene)	ug/l	10	10.10	101	10.81	108	7	
Toluene-d8 (S)				113		116		11
Dibromofluoromethane (S)				91		89		
4-Bromofluorobenzene (S)				93		94		
1,2-Dichloroethane-d4 (S)				87		88		

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87698
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603689332
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603689340 603689357

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.01728	1.911	1.976	102	2.044	106	3	

LABORATORY CONTROL SAMPLE: 603689365

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.734	104	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87784
Analysis Method: EPA 9010A
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil

METHOD BLANK: 603694092
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603694100 603694118

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0.1147	11.47	9.860	85.0	10.43	90.0	6	

LABORATORY CONTROL SAMPLE: 603694134

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	7.000	70.0	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87905
QC Batch Method: EPA 7196 Modified
Analysis Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603698721
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603698739

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	2.075	1.147	2.706	55.0	

LABORATORY CONTROL SAMPLE: 603698754

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	1.030	103	

SAMPLE DUPLICATE: 603698747

Parameter	Units	603650987	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	2.080	2.080	0	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87908
QC Batch Method: EPA 9030A
Analysis Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603698861
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	2	

MATRIX SPIKE: 603698879

Parameter	Units	603660556	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	2377	10	20800	184200	

LABORATORY CONTROL SAMPLE: 603698895

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	10	9.200	92.0	

SAMPLE DUPLICATE: 603698887

Parameter	Units	603660556	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	2380	1190	67	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Detected but below the PRL: therefore, result is an estimated concentration (CLP J-Flag).
[2]	The calculated RPD was outside QC acceptance limits.
[3]	Heptachlor exceeded the laboratory established control limits.
[4]	Due to the presence of PCB-1260 in the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch accepted based on LCS percent recoveries.
[5]	The Surrogate recovery value exceeded the established laboratory control limit value.
[6]	Due to high analyte concentration the matrix spike and matrix spike duplicate do not provide reliable recovery data.
[7]	The calculated RPD was outside QC acceptance limits.
[8]	Due to high analyte concentration and noted non homogeneity of the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch were accepted based on LCS percent recoveries.
[9]	Due to high analyte concentration the matrix spike and/or matrix spike duplicate do not provide reliable recovery data.
[10]	The calculated RPD exceeded the RPD control limit value of 17.
[11]	The recovery exceeds laboratory established control limits of 115%.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603650987	EX7	EPA 8260	87068		
603651068	EX11 SURFACE	EPA 8260	87068		
603651100	EX11 BASE	EPA 8260	87068		
603650987	EX7	EPA 3550	87077	EPA 8082	87300
3651068	EX11 SURFACE	EPA 3550	87077	EPA 8082	87300
603651100	EX11 BASE	EPA 3550	87077	EPA 8082	87300
603650987	EX7	EPA 3550	87078	EPA 8081A	87304
603651068	EX11 SURFACE	EPA 3550	87078	EPA 8081A	87304
603651100	EX11 BASE	EPA 3550	87078	EPA 8081A	87304
603650987	EX7		87241		
603651068	EX11 SURFACE		87241		
603651100	EX11 BASE		87241		
603650987	EX7	EPA 3050	87278	EPA 7841	87653
603651068	EX11 SURFACE	EPA 3050	87278	EPA 7841	87653
603651100	EX11 BASE	EPA 3050	87278	EPA 7841	87653
603650987	EX7	EPA 3050	87279	EPA 6010	87765
603651068	EX11 SURFACE	EPA 3050	87279	EPA 6010	87765
603651100	EX11 BASE	EPA 3050	87279	EPA 6010	87765
603650987	EX7	EPA 3550	87516	EPA 8151	87734
603651068	EX11 SURFACE	EPA 3550	87516	EPA 8151	87734
603651100	EX11 BASE	EPA 3550	87516	EPA 8151	87734
603650987	EX7	EPA 3550 Sonication	87568	EPA 8270	87731
603651068	EX11 SURFACE	EPA 3550 Sonication	87568	EPA 8270	87731
3651100	EX11 BASE	EPA 3550 Sonication	87568	EPA 8270	87731

REPORT OF LABORATORY ANALYSIS

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Phone: 913.599.5665
Fax: 913.599.1759

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603651225	TRIP BLANK 7/13/2000	EPA 8260	87604		
603650987	EX7	EPA 7471	87698		
603651068	EX11 SURFACE	EPA 7471	87698		
603651100	EX11 BASE	EPA 7471	87698		
603650987	EX7	EPA 9010A	87784		
603651068	EX11 SURFACE	EPA 9010A	87784		
603651100	EX11 BASE	EPA 9010A	87784		
603650987	EX7	EPA 7196 Modified	87905		
603651068	EX11 SURFACE	EPA 7196 Modified	87905		
603651100	EX11 BASE	EPA 7196 Modified	87905		
603650987	EX7	EPA 9030A	87908		
603651068	EX11 SURFACE	EPA 9030A	87908		
603651100	EX11 BASE	EPA 9030A	87908		

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EXCAVATION SAMPLE
CHAINS OF CUSTODY

Quality Analytical Services

6041378

CHAIN-OF-CUSTO[redacted]
and Analytical Reque[redacted]

1633 S. Marsh * Box 266426 * Kansas City, MO. * (816) 254-5257

Client DEFFENBAUGH

Address P.O. BOX 3220

SHANNEE, KS 66203

Phone (913) 631-3300 Fax

Report To: MICK COSSAIRT

Bill To: RODNEY MANN

P.O.# / Billing Reference

Project Name / No. ISC-KC ; RFI

QAS Client No.

QAS Project Manager

QAS Project No.

* Requested Due Date: N/

Sampled By (PRINT): MICK COSSAIRT

Sampler Signature: Mick Cossairt

Date: 5/24/00

ITEM NO.	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES.	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUESTED (BE SPECIFIC)	RFI LIST	W DATA	PACKAGE				REMARKS
1.	EX 1 3(GN)	5/24/00 09:15	SOIL		3												603500802
2.																	
3.																	
4.																	
5.																	
6.																	

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	SHIPMENT METHOD IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
					Rodney B. Mann	Abraham Tviegn	5/24/00	1600

Additional Comments:

PART 1 - ORIGINAL
PART 2 - TRANSFER
[illegible] - CUSTOMER

SEE REVERSE SIDE FOR INSTRUCTIONS

CLIENT

[illegible] WHEN REMITTING

Pace Analytical

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Page: 1 of 2

Required Client Information: Section A	Required Client Information: Section B	Client Information (Check quote/contract):	To Be Completed by Pace Analytical and Client Section C
Company: DEFFENBAUGH	Report To: MICK COSSAIRT		Quote Reference:
Address:	Invoice To: RODNEY MANN	Requested Due Date: / *TAT:	Project Manager:
	P.O.	* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge. Turn Around Time (TAT) in calendar days.	Project #: 6041974
	Project Name: TSC, KC RFI		Profile #:
Phone: 631-3300 / Fax: 631-3496	Project Number:		Requested Analysis:

Section D — Required Client Information:

SAMPLE ID

One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh: mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	RFI	Remarks / Lab ID
1	EX2 2(GN)	SL	6/9/00	[illegible]	[illegible]	Y						X	603556697
2	EX3			[illegible]45	[illegible]								603556705
3	EX5			[illegible]	[illegible]								603556713
4	EX6 SURFACE			[illegible]	[illegible]								603556721
5	EX8 SURFACE			14:45	[illegible]								603556739
6	EX8 BASE 3(GN)			14:25	3								Additional jar for 603556747 GC
7	EX8 MIDDLE 2(GN)			14:35	[illegible]								603556754
8	EX9 2(GN)			14:10	[illegible]								603556804
9	EX10 3(GN)			14:05	3								Additional jar for 603556820 GC
10	EX12 SURFACE 2(GN)			14:50	[illegible]								603556838
11	EX13 SURFACE			[illegible]	[illegible]								603556846
12	EX13 BASE			14:30	[illegible]								603556861

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:				[illegible]	6/9/00	17:01	[illegible]	[illegible]	17:00
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JASON DAVIS/MICK COSSAIRT

SIGNATURE of SAMPLER: [signature]

DATE Signed: (MM / DD / YY) 6-9-00

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Pace Analytical Services, Inc. Form COC01 02/00

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Page: 1 of 2

To Be Completed by Pace Analytical and Client

Section A — Required Client Information:

Company	DEFFENBAUGH
Address	
Phone	631-3300
Fax	631-3996

Section B — Required Client Information:

Report To:	MICK COSSAIRT
Invoice To:	RODNEY MANN
P.O.	
Project Name:	KC, KC RFI
Project Number:	

Client Information (Check quote/contract):

Requested Due Date: | *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

Section C

Quote Reference:	
Project Manager:	
Project #:	6041974
Profile #:	

Requested Analysis: RFI

Section D — Required Client Information:

SAMPLE ID

One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	RFI	Remarks / Lab I
1	EX13 MIDDLE 2(GN)	SL	6/9/00	14:20	2	X						X	603556606
2	EX14 BASE			14:11	2								603556614
3	EX14 SURFACE			14:55	2								603556622
4	DUP			15:05	2								603556655
5													
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:				Rodney J. Mann	6/9/00	17:00	[illegible]	6/9/00	17:[illegible]
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JASON DAVIS / [illegible]

SIGNATURE of SAMPLER: [illegible]

DATE Signed: (MM / DD / YY) 6-9-00

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical Services, Inc. Form CO[illegible]

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Page: 1 of 1

Requested Client Information: **Section A**

Company: Deffenbaugh
Address: 18181 W. 53rd Shawnee, KS 66217
Phone: 631-3300 Fax: 631-3996

Required Client Information: **Section B**

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.
Project Name: ISL-KL RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date: TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 60 42058
Profile #:
Requested Analysis: RFI

Section D Required Client Information:

SAMPLE ID
One character per box. (A-Z, 0-9 / .-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — WATER / WT, SOIL / SL, OIL / OL, WIPE / WP, AIR / AR, TISSUE / TS, OTHER / OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm/dd/yy	TIME COLLECTED hh:mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	RFI	Remarks / Lab ID
1	EX 4 2(GN)	SL	6/9/00	11:00	2	X						X	603564923
2	EX 6 BASE	SL	6/9/00	11:15	2	X						X	603564931
3	EX 12 MIDDLE	SL	6/9/00	11:25	2	X						X	603564949
4	EX 12 BASE	SL	6/9/00	11:35	2	X						X	603564956
5	EX 14 MIDDLE	SL	6/9/00	11:45	2	X						X	603564964
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:				[signature]	6/13		[signature]	6/13	10:00
Received on ICE:	Y / N			[signature]	6/13	12:15	[signature]	6/13/00	12:15
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MICK COSSAIRT
SIGNATURE of SAMPLER: Mick Cossairt
DATE Signed (MM/DD/YY): 6/12/00

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical Services, Inc. Form COC01 02/00

Pace Analytical

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Page: 1 of

Required Client Information: Section A

Company	[illegible]
Address	[illegible]
	[illegible]
Phone	[illegible]
Fax	[illegible]

Required Client Information: Section B

Report To	[illegible]
Invoice To	[illegible]
PO	
Project Name	[illegible]
Project Number	

Client Information (Check quote/contract):

Requested Due Date: | *TAT: [illegible]

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days

To Be Completed by Pace Analytical and Client — Section C

Quote Reference:	
Project Manager:	
Project #:	604-051
Profile #:	

Requested Analysis:

Section D Required Client Information:

SAMPLE ID

One character per box. (A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes ◄

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	[illegible]	Remarks / Lab ID
1	LX 2(GN)	[illegible]	[illegible]									X	60365098
2	1X11 SURFACE 2(GN)	[illegible]	[illegible]	[illegible]								X	60365106 8
3	LX11 BASE 2(GN)	[illegible]	[illegible]	[illegible]								X	60365100
4	TRIP BLANK 2(TB)	[illegible]	[illegible]	[illegible]								X	60365122 5
5													
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:				[illegible]	[illegible]	1610	Abraham Jiegne	7/15/00	1610
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] PESSAIRT

SIGNATURE of SAMPLER:

DATE Signed: (MM / DD / YY) 7-[illegible]-00

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical Services, Inc. Form COC01 02/00

Building

TABLE 2
ANALYTICAL RESULTS
BORINGS BENEATH THE ON-SITE BUILDING

SEMI-VOLATILE ORGANIC COMPOUNDS	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	B17R - 0.5'	B17R - 2.5'	B17R - 5.0'	B17R - 7.5'	B18R - 0.5'	B18R - 2.5'	B19R - 0.5'	B19R - 2.5'	B19R - 5.0'	B19R - 7.5'	B19R - 10.0'	B19R - 12.5'	B19R - 15.0'	B19R - 17.5'	B19R - 20.0'	DUPLICATE
	RISK BASED CONCENTRATIONS																	
Date Collected			25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00
Date Analyzed			7-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	7-Sep-00	7-Sep-00	8-Sep-00	8-Sep-00	7-Sep-00	7-Sep-00	7-Sep-00	7-Sep-00	8-Sep-00	8-Sep-00	7-Sep-00	7-Sep-00
Acenaphthene	120,000,000	4,700,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	610,000,000	23,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62(J)	ND	ND	ND
Benzoic acid	8,200,000,000	310,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	780	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	410,000	46,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210(J)	ND	ND	ND
Chrysene	780,000	87,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	8,200,000	310,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	180,000,000	7,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	240,000	27,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	4,100,000	160,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	3,600	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	410,000	46,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	73,000	8,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	82,000,000	3,100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	120,000,000	4,700,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1,000,000	39,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	410,000,000	16,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Cresol (4-methylphenol)	10,000,000	390,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyradine	2,000,000	78,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	200,000,000	7,800,000	ND	ND	54(J)	ND	ND	60(B,J)	ND	ND	ND	100(B,J)	42(B,J)	ND	140(B,J)	90(B,J)	89(B,J)	ND
N-Nitrosodiphenylamine	1,200,000	130,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1,200,000,000	47,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	61,000,000	2,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PESTICIDES	SOIL (ug/kg)		B17R - 0.5'	B17R - 2.5'	B17R - 5.0'	B17R - 7.5'	B18R - 0.5'	B18R - 2.5'	B19R - 0.5'	B19R - 2.5'	B19R - 5.0'	B19R - 7.5'	B19R - 10.0'	B19R - 12.5'	B19R - 15.0'	B19R - 17.5'	B19R - 20.0'	DUPLICATE
Date Collected			25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00
Date Analyzed			14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00
beta-BHC	3,200	350	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND
gamma-BHC	4,400	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	1,300	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	630	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METALS	SOIL (mg/kg)		B17R - 0.5'	B17R - 2.5'	B17R - 5.0'	B17R - 7.5'	B18R - 0.5'	B18R - 2.5'	B19R - 0.5'	B19R - 2.5'	B19R - 5.0'	B19R - 7.5'	B19R - 10.0'	B19R - 12.5'	B19R - 15.0'	B19R - 17.5'	B19R - 20.0'	DUPLICATE
Date Collected			25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00
Date Analyzed			8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00
Hexavalent Chrome	10,000	390	0.258	0.203	0.641	1.02	0.367	0.137	0.418	0.299	0.465	0.685	0.47	0.718	0.816	1.42	1.12	0.581

(B)-Analyte is found in the associated blank
(J)-Detected but below the PRL; result is estimated

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September 29, 2000

Mr. RODNEY MANN
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

Dear Mr. MANN:

Enclosed are the analytical results for sample(s)received by the laboratory on August 25, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 09/19/00
PAGE: 1

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
ıone: 913-631-3300

ıid results are reported on a dry weight basis

ce Sample No: 603774043 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B18R-.5' Date Received: 08/25/00

·rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
r [redacted]n, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
[redacted]mium, Hexavalent	0.367	mg/kg	0.122	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.2	%		0.82	08/30/00	DCKI		
. Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	70	%		0.82	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	59	%		0.82	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
:/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-[redacted]thylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
[redacted]hylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774043 | Date Collected: 08/25/00 | Matrix: Soil
ient Sample ID: B18R-.5' | Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
[illegible]threne	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
[illegible]acene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
Pyridine	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	53	%		0.82	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	63	%		0.82	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	54	%		0.82	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	58	%		0.82	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	57	%		0.82	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	57	%		0.82	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774050 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B18R-2.5' Date Received: 08/25/00

;rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.137	mg/kg	0.124	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.7	%		0.80	08/30/00	DCKI		
: Semivolatiles								
C [redacted]hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[redacted]-BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	60	%		0.80	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.80	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
D[redacted]nzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
[redacted]initrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774050 | Date Collected 08/25/00 | Matrix: Soil
ient Sample ID: B18R-2.5' | Date Received 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	60	ug/kg	400	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
[illegible]robenzene-d5 (S)	66	%		0.30	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	78	%		0.30	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.30	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	71	%		0.30	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	70	%		0.30	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	74	%		0.30	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774068 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B17R-.5' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.258	mg/kg	0.123	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.6	%		0.81	08/30/00	DCKI		
C Semivolatiles								
chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
-BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	79	%		0.81	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	64	%		0.81	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
enzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
Dinitrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774068 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	57	%		0.81	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	61	%		0.81	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	57	%		0.81	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	63	%		0.81	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	56	%		0.81	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	60	%		0.81	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

e Sample No: 603774076 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-2.5' Date Received: 08/25/00

ameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
c Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.203	mg/kg	0.127	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.0	%		0.79	08/30/00	DCKI		
Semivolatiles								
C lorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	81	%		0.79	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	80	%		0.79	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/08/00	WAW	83-32-9	
Di zofuran	ND	ug/kg	410	0.98	09/08/00	WAW	132-64-9	
nitrotoluene	ND	ug/kg	410	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774076 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-2.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	410	0.98	09/08/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	61	%		0.79	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	58	%		0.79	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	53	%		0.79	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	65	%		0.79	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	60	%		0.79	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	57	%		0.79	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774084 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B17R-5.0' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
'et Chemistry								
Chromium, Hexavalent, in Soil		Method: EPA 7196 Modified			Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.641	mg/kg	0.128	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	22.0	%		0.78	08/30/00	DCKI		
C Semivolatiles								
chlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
a-BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	94	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	80	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics		Method: EPA 8270			Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.97	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.97	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.97	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.97	09/08/00	WAW	83-32-9	
enzofuran	ND	ug/kg	410	0.97	09/08/00	WAW	132-64-9	
Dinitrotoluene	ND	ug/kg	410	0.97	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774084 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-5.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.97	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.97	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.97	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.97	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	54	ug/kg	410	0.97	09/08/00	WAW	84-74-2	1
Fluoranthene	ND	ug/kg	410	0.97	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.97	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.97	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.97	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.97	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.97	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	410	0.97	09/08/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	59	%		0.78	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	63	%		0.78	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	53	%		0.78	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	62	%		0.78	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	58	%		0.78	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	71	%		0.78	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774092 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: DUPLICATE Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.581	mg/kg	0.126	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.9	%		0.79	08/30/00	DCKI		
C Semivolatiles								
chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	86	%		0.79	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	96	%		0.79	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
Dinitrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774092 Date Collected: 08/25/00 Matrix: Soil
ıent Sample ID: DUPLICATE Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]dine	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]enzene-d5 (S)	59	%		0.79	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	59	%		0.79	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	55	%		0.79	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	66	%		0.79	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	56	%		0.79	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	65	%		0.79	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774100 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19R-15.0 Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.816	mg/kg	0.128	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.6	%		0.78	08/30/00	DCKI		
C Semivolatiles								
chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	87	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	79	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.97	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.97	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.97	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.97	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.97	09/08/00	WAW	132-64-9	
Dinitrotoluene	ND	ug/kg	410	0.97	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

Pace Sample No: 603774100 | Date Collected: 08/25/00 | Matrix: Soil
Client Sample ID: B19R-15.0 | Date Received: 08/25/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.97	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.97	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.97	09/08/00	WAW	85-01-8	
Anthracene	62	ug/kg	410	0.97	09/08/00	WAW	120-12-7	1
Di-n-butylphthalate	140	ug/kg	410	0.97	09/08/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	410	0.97	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.97	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.97	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.97	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.97	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	210	ug/kg	410	0.97	09/08/00	WAW	117-81-7	1
3-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	0.97	09/08/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	67	%		0.78	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	71	%		0.78	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	65	%		0.78	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.78	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	67	%		0.78	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	77	%		0.78	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 60[illegible]74118 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19[illegible]-17.5' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.42	mg/kg	0.131	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	23.4	%		0.77	08/30/00	DCKI		
C Semivolatiles								
[illegible]chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.6	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.3	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	95	%		0.77	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	80	%		0.77	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	420	0.97	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	420	0.97	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.97	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	420	0.97	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	420	0.97	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	420	0.97	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.97	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	420	0.97	09/08/00	WAW	132-64-9	
[illegible]Dinitrotoluene	ND	ug/kg	420	0.97	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774118 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-17.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	420	0.97	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.97	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.97	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.97	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	90	ug/kg	420	0.97	09/08/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	420	0.97	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.97	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.97	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	420	0.97	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	420	0.97	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.97	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	420	0.97	09/08/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	58	%		0.77	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	53	%		0.77	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	56	%		0.77	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	50	%		0.77	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	53	%		0.77	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	71	%		0.77	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774126 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-20.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.12	mg/kg	0.129	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.6	%		0.77	08/30/00	DCKI		
Semivolatiles								
C hlorine Pesticides GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	2.8	ug/kg	2.6	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.3	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	101	%		0.77	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	82	%		0.77	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	420	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	420	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	420	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	420	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	420	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	420	0.98	09/07/00	WAW	132-64-9	
initrotoluene	ND	ug/kg	420	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 6037'4126 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19R 20.0' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	420	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	89	ug/kg	420	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	420	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	420	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	420	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	108-39-4	
[illegible]idine	ND	ug/kg	420	0.98	09/07/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	64	%		0.77	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	65	%		0.77	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	57	%		0.77	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.77	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	60	%		0.77	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	66	%		0.77	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774134 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.418	mg/kg	0.123	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.7	%		0.81	08/30/00	DCKI		
Semivolatiles								
C hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	94	%		0.81	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.81	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	0.98	09/08/00	WAW	132-64-9	
initrotoluene	ND	ug/kg	400	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

-ce Sample No: 603774234 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B193-.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	400	0.98	09/08/00	WAW	110-86-1	
[illegible]benzene-d5 (S	73	%		0.81	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	75	%		0.81	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	66	%		0.81	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	74	%		0.81	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	65	%		0.81	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	69	%		0.81	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774142 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-2.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.299	mg/kg	0.125	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.8	%		0.80	08/30/00	DCKI		
Semivolatiles								
r [illegible]lorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	82	%		0.80	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	55	%		0.80	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	0.98	09/08/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	400	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774142 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19R-2.5' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	400	0.98	09/08/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	113	%		0.80	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	124	%		0.80	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	108	%		0.80	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	113	%		0.80	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	116	%		0.80	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	131	%		0.80	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774159 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-5.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.465	mg/kg	0.126	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.4	%		0.80	08/30/00	DCKI		
Semivolatiles								
O[illegible]hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	77	%		0.80	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	74	%		0.80	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774159 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-5.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	63	%		0.80	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.80	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	59	%		0.80	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	61	%		0.80	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	63	%		0.80	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	79	%		0.80	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774167 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-7.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.685	mg/kg	0.127	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.2	%		0.79	08/30/00	DCKI		
Semivolatiles								
O[illegible]chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	73	%		0.79	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	109	%		0.79	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774167 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-7.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	100	ug/kg	410	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	65	%		0.79	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.79	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.79	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.79	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	69	%		0.79	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	75	%		0.79	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774175 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-10.0' Date Received: 08/25/00

·rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil		Method: EPA 7196 Modified			Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.47	mg/kg	0.124	0.10	09/08/00	WOC	18540-29-9	
·ganics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	19.1	%		0.81	08/30/00	DCKI		
: Semivolatiles								
C [redacted]hlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
[redacted]-BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	83	%		0.81	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	71	%		0.81	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics		Method: EPA 8270			Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
[redacted]nzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
[redacted]initrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774175 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-10.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	42	ug/kg	400	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	67	%		0.81	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.81	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.81	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.81	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	70	%		0.81	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	74	%		0.81	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774183 Date Collected: 08/25/00 Matrix: Soil
ıent Sample ID: B19R-12.5' Date Received: 08/25/00

.rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.718	mg/kg	0.128	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.0	%		0.78	08/30/00	DCKI		
Semivolatiles								
C [illegible]hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]-BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	72	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	55	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
[illegible]nzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774183 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-12.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	66	%		0.78	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	67	%		0.78	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	60	%		0.78	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	74	%		0.78	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	60	%		0.78	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	79	%		0.78	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774209 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: WASTE SOIL Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
iorganics Prep								
Semivolatile Organics, TCLP	Method: EPA 8270				Prep Method: EPA 1311			
Date Extracted					09/08/00			
etals								
RCRA Metals, ICP, TCLP Leach.	Method: EPA 6010				Prep Method: EPA 3010			
Arsenic	ND	ug/l	85	0.78	09/01/00	CAS	7440-38-2	
Barium	832	ug/l	4	0.78	09/01/00	CAS	7440-39-3	3
Cadmium	ND	ug/l	5	0.78	09/01/00	CAS	7440-43-9	
Chromium	ND	ug/l	7	0.78	09/01/00	CAS	7440-47-3	
[illegible]	ND	ug/l	50	0.78	09/01/00	CAS	7439-92-1	
Selenium	ND	ug/l	100	0.78	09/01/00	CAS	7782-49-2	
Silver	ND	ug/l	7	0.78	09/01/00	CAS	7440-22-4	
Date Digested					08/31/00			
Mercury, CVAAS, TCLP Leachate	Method: EPA 7470				Prep Method: EPA 7470			
Mercury	ND	ug/l	2	0.78	09/07/00	SYW	7439-97-6	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.5	%		0.78	08/30/00	DCKI		
C Volatiles								
TPH Gas/BTEX	Method: EPA 8021/OA1				Prep Method: TPH GRO/BTEX			
Gasoline Range Hydrocarbons	9700	ug/kg	3200	0.50	08/30/00	JLG		
Benzene	ND	ug/kg	32	0.50	08/30/00	JLG	71-43-2	
Toluene	ND	ug/kg	32	0.50	08/30/00	JLG	108-88-3	
Ethylbenzene	ND	ug/kg	32	0.50	08/30/00	JLG	100-41-4	
Xylene (Total)	ND	ug/kg	84	0.50	08/30/00	JLG	1330-20-7	
a,a,a-Trifluorotoluene (S)	94	%		0.78	08/30/00	JLG	2164-17-2	
4-Bromofluorobenzene (S)	109	%		0.78	08/30/00	JLG	460-00-4	
C Semivolatiles								
[illegible]ides, TCLP Leachate	Method: EPA 8081A				Prep Method: EPA 3510			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774209 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: WASTE SOIL Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Chlordane	ND	mg/l	0.03	0.78	09/14/00	JLO	57-74-9	
Endrin	ND	mg/l	0.02	0.78	09/14/00	JLO	72-20-8	
Heptachlor	ND	mg/l	0.008	0.78	09/14/00	JLO	76-44-8	
Toxaphene	ND	mg/l	0.5	0.78	09/14/00	JLO	8001-35-2	
gamma-BHC (Lindane)	ND	mg/l	0.4	0.78	09/14/00	JLO	58-89-9	
Methoxychlor	ND	mg/l	10	0.78	09/14/00	JLO	72-43-5	
Heptachlor Epoxide	ND	mg/l	0.008	0.78	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	60	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	66	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/01/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1016 (Arochlor 1016)	ND	ug/kg	43	1.00	09/06/00	JLO	12674-11-2	
PCB-1221 (Arochlor 1221)	ND	ug/kg	43	1.00	09/06/00	JLO	11104-28-2	
PCB-1232 (Arochlor 1232)	ND	ug/kg	43	1.00	09/06/00	JLO	11141-16-5	
PCB-1242 (Arochlor 1242)	ND	ug/kg	43	1.00	09/06/00	JLO	53469-21-9	
PCB-1248 (Arochlor 1248)	ND	ug/kg	43	1.00	09/06/00	JLO	12672-29-6	
PCB-1254 (Arochlor 1254)	ND	ug/kg	43	1.00	09/06/00	JLO	11097-69-1	
PCB-1260 (Arochlor 1260)	99	ug/kg	43	1.00	09/06/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	64	%		0.78	09/06/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	49	%		0.78	09/06/00	JLO	877-09-8	
Date Extracted					09/05/00			
Herbicides, TCLP Leachate	Method: EPA 8150				Prep Method: EPA 8150			
2,4-D	ND	ug/l	20	0.78	09/12/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/l	7.5	0.78	09/12/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	88	%		0.78	09/12/00	JLO		
Date Extracted					09/08/00			
GC/MS Volatiles								
Volatile Organics, TCLP Leach.	Method: EPA 8260				Prep Method: EPA 8260			
Vinyl Chloride	ND	ug/l	100	0.78	09/08/00	NLA	75-01-4	
1,1-Dichloroethene	ND	ug/l	50	0.78	09/08/00	NLA	75-35-4	
Chloroform	ND	ug/l	200	0.78	09/08/00	NLA	67-66-3	
1,2-Dichloroethane	ND	ug/l	50	0.78	09/08/00	NLA	107-06-2	
2-Butanone	ND	ug/l	1000	0.78	09/08/00	NLA	78-93-3	
Carbon Tetrachloride	ND	ug/l	50	0.78	09/08/00	NLA	56-23-5	
Trichloroethene	ND	ug/l	50	0.78	09/08/00	NLA	79-01-6	
[illegible]ene	ND	ug/l	50	0.78	09/08/00	NLA	71-43-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774209 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: WASTE SOIL Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Tetrachloroethene	ND	ug/l	50	0.78	09/08/00	NLA	127-18-4	
Chlorobenzene	ND	ug/l	50	0.78	09/08/00	NLA	108-90-7	
1,2-Dichloroethane-d4 (S)	100	%		0.78	09/08/00	NLA	17060-07-0	
Toluene-d8 (S)	99	%		0.78	09/08/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	99	%		0.78	09/08/00	NLA	460-00-4	

C/MS Semivolatiles

Semivolatile Organics, TCLP	Method: EPA 8270				Prep Method: EPA 3510		
1,4-Dichlorobenzene	ND	ug/l	100	0.78	09/05/00	TGH	106-46-7
2-Methylphenol	ND	ug/l	100	0.78	09/05/00	TGH	95-48-7
3-Methylphenol	ND	ug/l	200	0.78	09/05/00	TGH	108-39-4
4-Methylphenol	ND	ug/l	100	0.78	09/05/00	TGH	106-44-5
[illegible]benzene	ND	ug/l	100	0.78	09/05/00	TGH	98-95-3
[illegible]chlorobutadiene	ND	ug/l	100	0.78	09/05/00	TGH	87-68-3
2,4,6-Trichlorophenol	ND	ug/l	100	0.78	09/05/00	TGH	88-06-2
2,4,5-Trichlorophenol	ND	ug/l	500	0.78	09/05/00	TGH	95-95-4
2,4-Dinitrotoluene	ND	ug/l	100	0.78	09/05/00	TGH	121-14-2
Hexachlorobenzene	ND	ug/l	100	0.78	09/05/00	TGH	118-74-1
Pentachlorophenol	ND	ug/l	500	0.78	09/05/00	TGH	87-86-5
Pyridine	ND	ug/l	100	0.78	09/05/00	TGH	110-86-1
Hexachloroethane	ND	ug/l	100	0.78	09/05/00	TGH	67-72-1
Nitrobenzene-d5 (S)	54	%		0.78	09/05/00	TGH	4165-60-0
2-Fluorobiphenyl (S)	64	%		0.78	09/05/00	TGH	321-60-8
Terphenyl-d14 (S)	68	%		0.78	09/05/00	TGH	1718-51-0
Phenol-d6 (S)	65	%		0.78	09/05/00	TGH	13127-88-3
2-Fluorophenol (S)	61	%		0.78	09/05/00	TGH	367-12-4
2,4,6-Tribromophenol (S)	65	%		0.78	09/05/00	TGH	118-79-6
Date Extracted					09/01/00		

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603776527 Date Collected: 08/25/00 Matrix: Soil
ıent Sample ID: B17R-7.5 Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.02	mg/kg	0.129	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.2	%		0.78	09/01/00	DCKI		
Semivolatiles								
O[illegible]lorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	83	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	65	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	420	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	420	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	420	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	420	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	420	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.98	09/08/00	WAW	83-32-9	
D[illegible]nzofuran	ND	ug/kg	420	0.98	09/08/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	420	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

e Sample No: 603776527 Date Collected: 08/25/00 Matrix: Soil
ent Sample ID: B17R-7.5 Date Received: 08/25/00

ameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	420	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	420	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	420	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	420	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	420	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	420	0.98	09/08/00	WAW	110-86-1	
[illegible]enzene-d5 (S)	69	%		0.78	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.78	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.78	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	72	%		0.78	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	66	%		0.78	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.78	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ARAMETER FOOTNOTES

)	Not Detected
C	Not Calculable
RL	Pace Reporting Limit
S)	Surrogate
pp. DF	Applied Dilution Factor
1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
2]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
3]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).

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QUALITY CONTROL DATA

effenbaugh Industries, Inc.
8181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 89204
nalysis Method: EPA 8260
ssociated Pace Samples: 603774209

QC Batch Method: EPA 8260
Analysis Description: Volatile Organics, TCLP Leach.

ETHOD BLANK: 603799297
ssociated Pace Samples:
603774209

Parameter	Units	Method Blank Result	PRL	Footnotes
Vinyl Chloride	ug/l	ND	100	
1,1-Dichloroethene	ug/l	ND	50	
Chloroform	ug/l	ND	200	
1,2-Dichloroethane	ug/l	ND	50	
2-Butanone	ug/l	ND	1000	
Carbon Tetrachloride	ug/l	ND	50	
Trichloroethene	ug/l	ND	50	
Benzene	ug/l	ND	50	
Tetrachloroethene	ug/l	ND	50	
Chlorobenzene	ug/l	ND	50	
1,2-Dichloroethane-d4 (S)	%	95		
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	96		

ATRIX SPIKE: 603755026

Parameter	Units	603745738	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Vinyl Chloride	ug/l	0	500	783.0	157	
1,1-Dichloroethene	ug/l	0	500	447.0	89.4	
Chloroform	ug/l	0	500	389.0	77.8	
1,2-Dichloroethane	ug/l	0	500	394.0	78.8	
2-Butanone	ug/l	0	500	464.0	92.8	
Carbon Tetrachloride	ug/l	0	500	400.0	80.0	

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QUALITY CONTROL DATA

DATE: 09/19/00
PAGE: 38

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

TRIX SPIKE: 603755026

rameter	Units	603745738	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
ichloroethene	ug/l	0	500	396.0	79.2	
nzene	ug/l	0	500	412.0	82.4	
trachloroethene	ug/l	0	500	348.0	69.6	
ılorobenzene	ug/l	0	500	371.0	74.2	
2-Dichloroethane-d4 (S)					93	
ıluene-d8 (S)					102	
Bromofluorobenzene (S)					88	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
ıone: 913-631-3300

. Batch ID: 89646
ıalysis Method:
ısociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603774209

QC Batch Method:
Analysis Description: Percent Moisture

ıMPLE DUPLICATE: 603776311

ar	Units	603774043	Dup. Result	RPD	Footnotes
ɔrcent Moisture	%	18.20	18.50	1	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
ıone: 913-631-3300

Batch ID: 89723
ıalysis Method: EPA 8021/OA1
ısociated Pace Samples: 603774209

QC Batch Method: TPH GRO/BTEX
Analysis Description: TPH Gas/BTEX

THOD BLANK: 603778861
ısociated Pace Samples:
603774209

ara[illegible]	Units	Method Blank Result	PRL	Footnotes
asoline Range Hydrocarbons	ug/kg	ND	5000	
enzene	ug/kg	ND	50	
oluene	ug/kg	ND	50	
thylbenzene	ug/kg	ND	50	
ylene (Total)	ug/kg	ND	130	
,a,a-Trifluorotoluene (S)	%	94		
-Bromofluorobenzene (S)	%	102		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603778887 603778895

arameter	Units	603769241	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
asoline Range Hydrocarbons	ug/kg	2610	49900	42690	80.3	41400	77.7	3	
enzene	ug/kg	0	499	474.6	95.1	480.7	96.2	1	
oluene	ug/kg	21.86	499	464.6	88.7	468.2	89.4	1	
thylbenzene	ug/kg	18.40	499	471.4	90.8	467.3	89.9	1	
ylene (Total)	ug/kg	22.56	1497	1463	96.2	1467	96.4	0	
,a,a-Trifluorotoluene (S)					96		98		
-Bromofluorobenzene (S)					109		109		

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QUALITY CONTROL DATA

DATE: 09/19/00
PAGE: 41

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

BORATORY CONTROL SAMPLE: 603778879

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
soline Range Hydrocarbons	ug/kg	49880	45310	90.8	
nzene	ug/kg	498.8	473.2	94.9	
luene	ug/kg	498.8	466.7	93.6	
hylbenzene	ug/kg	498.8	464.0	93.0	
lene (Total)	ug/kg	1496	1420	94.9	
a,a-Trifluorotoluene (S)				97	
Bromofluorobenzene (S)				108	

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QUALITY CONTROL DATA

:ffenbaugh Industries, Inc.
:181 W 53RD ST
:AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
ione: 913-631-3300

: Batch ID: 89810
nalysis Method:
ssociated Pace Samples: 603776527

QC Batch Method:
Analysis Description: Percent Moisture

AMPLE DUPLICATE: 603782798

arameter	Units	603775651	Dup. Result	RPD	Footnotes
ercent Moisture	%	16.70	18.10	8	

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QUALITY CONTROL DATA

effenbaugh Industries, Inc.
3181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ctn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 89819
nalysis Method: EPA 6010
ssociated Pace Samples: 603774209

QC Batch Method: EPA 3010
Analysis Description: RCRA Metals, ICP, TCLP Leach.

ETHOD BLANK: 603783317
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
rsenic	ug/l	ND	85	
arium	ug/l	10.6	4	1
admium	ug/l	ND	5	
hromium	ug/l	ND	7	
ead	ug/l	ND	50	
elenium	ug/l	ND	100	
ilver	ug/l	ND	7	

ATRIX SPIKE: 603783333

arameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
rsenic	ug/l	15.30	1000	763.0	74.8	
arium	ug/l	832.0	1000	1520	68.8	2
admium	ug/l	4.020	100	82.10	78.1	
hromium	ug/l	4.680	1000	747.0	74.2	
ead	ug/l	10.10	1000	779.0	76.9	
elenium	ug/l	19.90	1000	822.0	80.2	
ilver	ug/l	2.970	100	6.200	3.20	2

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603783325

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
rsenic	ug/l	1000	821.0	82.1	
arium	ug/l	1000	825.0	82.5	
admium	ug/l	100	87.60	87.6	
hromium	ug/l	1000	842.0	84.2	
ead	ug/l	1000	864.0	86.4	
elenium	ug/l	1000	887.0	88.7	
ilver	ug/l	100	84.00	84.0	

AMPLE DUPLICATE: 603783341

arameter	Units	603774209	Dup. Result	RPD	Footnotes
rsenic	ug/l	ND	ND	NC	
ar[illegible]	ug/l	832.0	846.0	2	
a[illegible]	ug/l	ND	ND	NC	
hromium	ug/l	ND	7.210	NC	
ead	ug/l	ND	ND	NC	
elenium	ug/l	ND	ND	NC	
ilver	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

. Batch ID: 89859
alysis Method: EPA 8270
sociated Pace Samples: 603774209

QC Batch Method: EPA 3510
Analysis Description: Semivolatile Organics, TCLP

THOD BLANK: 603785692
ssociated Pace Samples:
603774209

aram[illegible]	Units	Method Blank Result	PRL	Footnotes
,4-Dichlorobenzene	ug/l	ND	100	
-Methylphenol	ug/l	ND	100	
-Methylphenol	ug/l	ND	200	
-Methylphenol	ug/l	ND	100	
itrobenzene	ug/l	ND	100	
exachlorobutadiene	ug/l	ND	100	
,4,6-Trichlorophenol	ug/l	ND	100	
,4,5-Trichlorophenol	ug/l	ND	500	
,4-Dinitrotoluene	ug/l	ND	100	
exachlorobenzene	ug/l	ND	100	
entachlorophenol	ug/l	ND	500	
yridine	ug/l	ND	100	
exachloroethane	ug/l	ND	100	
itrobenzene-d5 (S)	%	64		
-Fluorobiphenyl (S)	%	77		
erphenyl-d14 (S)	%	71		
henol-d6 (S)	%	74		
-Fluorophenol (S)	%	74		
,4,6-Tribromophenol (S)	%	72		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

IRIX SPIKE: 603785700

rameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
4-Dichlorobenzene	ug/l	0	505	262.9	52.1	
lethylphenol	ug/l	0	505	306.1	60.6	
Methylphenol	ug/l	0	1010	617.4	61.1	
Methylphenol	ug/l	0	1010	617.4	61.1	
trobenzene	ug/l	0	505	314.7	62.3	
xachlorobutadiene	ug/l	0	505	262.4	52.0	
4,6-Trichlorophenol	ug/l	0	505	310.7	61.5	
4,5-Trichlorophenol	ug/l	0	1515	907.0	59.9	
4-Dinitrotoluene	ug/l	0	505	306.1	60.6	
xachlorobenzene	ug/l	0	505	354.9	70.3	
ntachlorophenol	ug/l	0	1515	1172	77.4	
ridine	ug/l	0	1010	338.5	33.5	
xachloroethane	ug/l	0	505	246.6	48.8	
trobenzene-d5 (S)					62	
F[illegible]phenyl (S)					71	
r[illegible]-d14 (S)					77	
enol-d6 (S)					68	
Fluorophenol (S)					62	
4,6-Tribromophenol (S)					76	

BORATORY CONTROL SAMPLE: 603785718

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
4-Dichlorobenzene	ug/l	505	214.1	42.4	
Methylphenol	ug/l	505	277.8	55.0	
Methylphenol	ug/l	1010	569.0	56.3	
Methylphenol	ug/l	1010	569.0	56.3	
trobenzene	ug/l	505	263.9	52.2	
xachlorobutadiene	ug/l	505	225.3	44.6	
4,6-Trichlorophenol	ug/l	505	280.0	55.4	
4,5-Trichlorophenol	ug/l	1515	834.3	55.1	
4-Dinitrotoluene	ug/l	505	281.9	55.8	
xachlorobenzene	ug/l	505	328.5	65.1	
ntachlorophenol	ug/l	1515	1056	69.7	
ridine	ug/l	1010	242.7	24.0	
xachloroethane	ug/l	505	197.6	39.1	
trobenzene-d5 (S)				51	
-Fluorobiphenyl (S)				61	
[illegible]-d14 (S)				68	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

BORATORY CONTROL SAMPLE: 603785718

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
enol-d6 (S)				58	
Fluorophenol (S)				52	
4.6-Tribromophenol (S)				69	

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QUALITY CONTROL DATA

:ffenbaugh Industries Inc.
:181 W 53RD ST
:AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
none: 913-631-3300

C Batch ID: 89909
nalysis Method: EPA 8081A
ssociated Pace Samples: 603774209

QC Batch Method: EPA 3510
Analysis Description: Pesticides, TCLP Leachate

ETHOD BLANK: 603787995
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
hlordane	mg/l	ND	0.03	
ndrin	mg/l	ND	0.02	
eptachlor	mg/l	ND	0.008	
oxaphene	mg/l	ND	0.5	
amma-BHC (Lindane)	mg/l	ND	0.4	
ethoxychlor	mg/l	ND	10	
eptachlor Epoxide	mg/l	ND	0.008	
ecachlorobiphenyl (S)	%	66		
etrachloro-meta-xylene (S)	%	45		

ATRIX SPIKE: 60378800

Parameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
ndrin	mg/l	0	0.0069	0.004472	64.4	
eptachlor	mg/l	0	0.0069	0.003586	51.6	
amma-BHC (Lindane)	mg/l	0	0.0069	0.003474	50.0	
ethoxychlor	mg/l	0.0005436	0.0069	0.004833	61.8	
eptachlor Epoxide	mg/l	0	0.0069	0.003793	54.6	
ecachlorobiphenyl (S)					52	
etrachloro-meta-xylene (S)					46	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

LABORATORY CONTROL SAMPLE: 603788019

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
ldrin	mg/l	0.0050	0.005697	114	
eptachlor	mg/l	0.0050	0.004447	88.9	
amma-BHC (Lindane)	mg/l	0.0050	0.004663	93.3	
ethoxychlor	mg/l	0.0050	0.005963	119	
eptachlor Epoxide	mg/l	0.0050	0.004812	96.2	
ecachlorobiphenyl (S)				101	
etrachloro-meta-xylene (S)				81	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
3181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 89988
nalysis Method: EPA 8082
ssociated Pace Samples: 603774209

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

ETHOD BLANK: 603791575
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
CB-1016 (Arochlor 1016)	ug/kg	ND	33	
CB-1221 (Arochlor 1221)	ug/kg	ND	33	
CB-1232 (Arochlor 1232)	ug/kg	ND	33	
CB-1242 (Arochlor 1242)	ug/kg	110	33	
CB-1248 (Arochlor 1248)	ug/kg	ND	33	
CB-1254 (Arochlor 1254)	ug/kg	ND	33	
CB-1260 (Arochlor 1260)	ug/kg	ND	33	
ecachlorobiphenyl (S)	%	94		
etrachloro-meta-xylene (S)	%	82		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603791583 603791591

arameter	Units	603769860	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
CB-1016 (Arochlor 1016)	ug/kg	0	333.2	164.4	49.4	146.2	43.9	12	
CB-1260 (Arochlor 1260)	ug/kg	0	333.2	240.4	72.1	234.9	70.5	2	
ecachlorobiphenyl (S)					70		65		
etrachloro-meta-xylene (S)					59		56		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

BORATORY CONTROL SAMPLE: 603791609

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
B-1016 (Arochlor 1016)	ug/kg	333.3	257.6	77.3	
B-1260 (Arochlor 1260)	ug/kg	333.3	319.6	95.9	
cachlorobiphenyl (S)				98	
trachloro-meta-xylene (S)				80	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 90072
alysis Method: EPA 7470
ssociated Pace Samples: 603774209

QC Batch Method: EPA 7470
Analysis Description: Mercury, CVAAS, TCLP Leachate

THOD BLANK: 603794652
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
ercury	ug/l	ND	2	

ATRIX SPIKE: 603794660

arameter	Units	603767609	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
ercury	ug/l	0.01083	100	12.00	12.0	3

ABORATORY CONTROL SAMPLE: 603794686

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
ercury	ug/l	100	79.63	79.6	

AMPLE DUPLICATE: 603794678

arameter	Units	603767609	Dup. Result	RPD	Footnotes
ercury	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

:ffenbaugh Industries, Inc.
3181 W 53RD ST
IAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 90102
nalysis Method: EPA 8270
ssociated Pace Samples:

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

603774043	603774050	603774068	603774076	603774084
603774092	603774100	603774118	603774126	603774134
603774142	603774159	603774167	603774175	603774183
603776527				

ETHOD BLANK: 603795576
ssociated Pace Samples:

603774043	603774050	603774068	603774076	603774084	603774092	603774100
603774118	603774126	603774134	603774142	603774159	603774167	603774175
603774183	603776527					

'arameter	Units	Method Blank Result	PRL	Footnotes
'henol	ug/kg	ND	330	
,4-Dichlorobenzene	ug/kg	ND	330	
,2-Dichlorobenzene	ug/kg	ND	330	
'-Methylphenol	ug/kg	ND	330	
:-Methylphenol	ug/kg	ND	330	
lexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
',4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
lexachlorobutadiene	ug/kg	ND	330	
'-Methylnaphthalene	ug/kg	ND	330	
cenaphthene	ug/kg	ND	330	
ibenzofuran	ug/kg	ND	330	
',4-Dinitrotoluene	ug/kg	ND	330	
luorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
lexachlorobenzene	ug/kg	ND	330	
'henanthrene	ug/kg	ND	330	
An' [illegible]ne	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

THOD BLANK: 603795576
ssociated Pace Samples:

603774043 603774050 603774068 603774076 603774084 603774092 603774100
603774118 603774126 603774134 603774142 603774159 603774167 603774175
603774183 603776527

arameter	Units	Method Blank Result	PRL	Footnotes
-n-butylphthalate	ug/kg	62	330	4
luoranthene	ug/kg	ND	330	
yrene	ug/kg	ND	330	
utylbenzylphthalate	ug/kg	ND	330	
enzo(a)anthracene	ug/kg	ND	330	
hrysene	ug/kg	ND	330	
s(2-Ethylhexyl)phthalate	ug/kg	ND	330	
-Methylphenol	ug/kg	ND	330	
yridine	ug/kg	ND	330	
itr[illegible]zene-d5 (S)	%	70		
-F [illegible]iphenyl (S)	%	86		
erphenyl-d14 (S)	%	73		
henol-d6 (S)	%	69		
-Fluorophenol (S)	%	72		
.4,6-Tribromophenol (S)	%	80		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603795584 603795592

arameter	Units	603774043	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
henol	ug/kg	0	3002	1565	52.2	1898	63.6	20	
.4-Dichlorobenzene	ug/kg	0	2001	1070	53.5	1233	62.0	15	
cenaphthene	ug/kg	0	2001	1069	53.4	1386	69.7	26	
.4-Dinitrotoluene	ug/kg	0	2001	1348	67.4	1512	76.0	12	
yrene	ug/kg	0	2001	1189	59.4	1350	67.9	13	
itrobenzene-d5 (S)					58		64		
-Fluorobiphenyl (S)					61		74		
erphenyl-d14 (S)					54		62		
henol-d6 (S)					59		66		
-Fluorophenol (S)					54		68		
.4,6-Tribromophenol (S)					64		78		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603795600

'arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
'henol	ug/kg	2500	1151	46.1	
.4-Dichlorobenzene	ug/kg	1667	792.8	47.6	
.cenaphthene	ug/kg	1667	931.7	55.9	
².4-Dinitrotoluene	ug/kg	1667	943.3	56.6	
'yrene	ug/kg	1667	978.2	58.7	
¼itrobenzene-d5 (S)				49	
²-Fluorobiphenyl (S)				64	
¹erphenyl-d14 (S)				52	
'henol-d6 (S)				52	
²-Fluorophenol (S)				50	
².4.6-Tribromopheno' (S)				62	

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Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 90130
alysis Method: EPA 8081A
sociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603776527

QC Batch Method: EPA 3550
Analysis Description: Organochlorine Pesticides, GC

THOD BLANK: 603796749
sociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603776527

rameter	Units	Method Blank Result	PRL	Footnotes
ta-BHC	ug/kg	ND	2	
mma-BHC (Lindane)	ug/kg	ND	1.3	
ptachlor	ug/kg	ND	0.99	
ptachlor Epoxide	ug/kg	ND	3.3	
cachlorobiphenyl (S)	%	78		
trachloro-meta-xylene (S)	%	69		

TRIX SPIKE & MATRIX SPIKE DUPLICATE: 603796756 603796764

arameter	Units	603774043	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
mma-BHC (Lindane)	ug/kg	0	20.38	15.36	75.4	17.05	83.6	10	
ptachlor	ug/kg	0	20.38	15.37	75.4	17.13	84.0	11	
cachlorobiphenyl (S)					83		89		
trachloro-meta-xylene (S)					64		77		

REPORT OF LABORATORY ANALYSIS

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Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603796772

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
eta-BHC	ug/kg	16.67	11.24	67.4	
amma-BHC (Lindane)	ug/kg	16.67	9.643	57.9	
eptachlor	ug/kg	16.67	10.01	60.0	
eptachlor Epoxide	ug/kg	16.67	10.37	62.2	
ecachlorobiphenyl (S)				63	
etrachloro-meta-xylene (S)				53	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 90239
alysis Method: EPA 7196 Modified
sociated Pace Samples: 603774043, 603774050, 603774068, 603774076, 603774084, 603774092, 603774100, 603774118, 603774126, 603774134, 603774142, 603774159, 603774167, 603774175, 603774183, 603776527

QC Batch Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil

THOD BLANK: 603801440
ssociated Pace Samples: 603774043, 603774050, 603774068, 603774076, 603774084, 603774092, 603774100, 603774118, 603774126, 603774134, 603774142, 603774159, 603774167, 603774175, 603774183, 603776527

arameter	Units	Method Blank Result	PRL	Footnotes
romium, Hexavalent	mg/kg	ND	0.1	

TRIX SPIKE: 603801457

arameter	Units	603774043	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
hromium, Hexavalent	mg/kg	0.3669	1.223	0.2446	-10.0	5

ABORATORY CONTROL SAMPLE: 603801473

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
hromium, Hexavalent	mg/kg	1.000	0.9600	96.0	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

MPLE DUPLICATE: 603801465

rameter	Units	603774043	Dup. Result	RPD	Footnotes
romium, Hexavalent	mg/kg	0.3670	0.2320	0	

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QUALITY CONTROL DATA

effenbaugh Industries, Inc.
8181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 90252
nalysis Method: EPA 8152
ssociated Pace Samples: 603774209

QC Batch Method: EPA 8150
Analysis Description: Herbicides, TCLP Leachate

ETHOD BLANK: 603802083
ssociated Pace Samples:
603774209

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/l	ND	20000	
2,4,5-TP(Silvex)	ug/l	ND	7500	
Dichlorophenyl Acetic Acid (S)	%	93		

MATRIX SPIKE: 603802091

Parameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
2,4-D	ug/l	0	50	51.92	104	
2,4,5-TP(Silvex)	ug/l	0	5.000	5.291	106	
Dichlorophenyl Acetic Acid (S)					105	

LABORATORY CONTROL SAMPLE: 603802109

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/l	50	50.40	101	
2,4,5-TP(Silvex)	ug/l	5.000	5.057	101	
Dichlorophenyl Acetic Acid (S)				101	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

IALITY CONTROL DATA PARAMETER FOOTNOTES

nsistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

)	Not Detected
.	Not Calculable
RL	Pace Reporting Limit
PD	Relative Percent Difference
)	Surrogate
]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
]	The spike recovery was outside acceptance limits for the MS due to matrix interference. The LCS was within acceptance limits showing that the laboratory is in control and the data is acceptable.
]	Matrix (MS) and or surrogate spike recovery (S) was affected by the sample matrix. Refer to the batch QC recoveries (Blank and LCS) to demonstrate that the analytical system was operating in control.
]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
]	Spiked sample recovery is not within control limits.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

effenbaugh Industries Inc.
8181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603774209	WASTE SOIL	EPA 8260	89204		
603774043	B18R-.5'		89646		
603774050	B18R-2.5'		89646		
603774068	B17R-.5'		89646		
603774076	B17R-2.5'		89646		
603774084	B17R-5.0'		89646		
603774092	DUPLICATE		89646		
603774100	B19R-15.0		89646		
603774118	B19R-17.5'		89646		
603774126	B19R-20.0'		89646		
603774134	B19R-.5'		89646		
603774142	B19R-2.5'		89646		
603774159	B19R-5.0'		89646		
603774167	B19R-7.5'		89646		
603774175	B19R-10.0'		89646		
603774183	B19R-12.5'		89646		
603774209	WASTE SOIL		89646		
603774209	WASTE SOIL	TPH GRO/BTEX	89723	EPA 8021/OA1	89729
603776527	B17R-7.5		89810		
603774209	WASTE SOIL	EPA 3010	89819	EPA 6010	89880
603774209	WASTE SOIL	EPA 3510	89859	EPA 8270	90007
603774209	WASTE SOIL	EPA 3510	89909	EPA 8081A	90449
603774209	WASTE SOIL	EPA 3550	89988	EPA 8082	90107
603774209	WASTE SOIL	EPA 7470	90072		

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603774043	B18R-.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774050	B18R-2.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774068	B17R-.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774076	B17R-2.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774084	B17R-5.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774092	DUPLICATE	EPA 3550 Sonication	90102	EPA 8270	90188
603774100	B19R-15.0	EPA 3550 Sonication	90102	EPA 8270	90188
603774118	B19R-17.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774126	B19R-20.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774134	B19R-.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774142	B19R-2.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774159	B19R-5.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774167	B19R-7.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774175	B19R-10.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774183	B19R-12.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603776527	B17R-7.5	EPA 3550 Sonication	90102	EPA 8270	90188
[illegible]74043	B18R-.5'	EPA 3550	90130	EPA 8081A	90450
[illegible]774050	B18R-2.5'	EPA 3550	90130	EPA 8081A	90450
603774068	B17R-.5'	EPA 3550	90130	EPA 8081A	90450
603774076	B17R-2.5'	EPA 3550	90130	EPA 8081A	90450
603774084	B17R-5.0'	EPA 3550	90130	EPA 8081A	90450
603774092	DUPLICATE	EPA 3550	90130	EPA 8081A	90450
603774100	B19R-15.0	EPA 3550	90130	EPA 8081A	90450
603774118	B19R-17.5'	EPA 3550	90130	EPA 8081A	90450
603774126	B19R-20.0'	EPA 3550	90130	EPA 8081A	90450
603774134	B19R-.5'	EPA 3550	90130	EPA 8081A	90450
603774142	B19R-2.5'	EPA 3550	90130	EPA 8081A	90450
603774159	B19R-5.0'	EPA 3550	90130	EPA 8081A	90450
603774167	B19R-7.5'	EPA 3550	90130	EPA 8081A	90450
603774175	B19R-10.0'	EPA 3550	90130	EPA 8081A	90450
603774183	B19R-12.5'	EPA 3550	90130	EPA 8081A	90450
603776527	B17R-7.5	EPA 3550	90130	EPA 8081A	90450
603774043	B18R-.5'	EPA 7196 Modified	90239		
603774050	B18R-2.5'	EPA 7196 Modified	90239		
603774068	B17R-.5'	EPA 7196 Modified	90239		
603774076	B17R-2.5'	EPA 7196 Modified	90239		
603774084	B17R-5.0'	EPA 7196 Modified	90239		
603774092	DUPLICATE	EPA 7196 Modified	90239		
603774100	B19R-15.0	EPA 7196 Modified	90239		
603774118	B19R-17.5'	EPA 7196 Modified	90239		
[illegible]774126	B19R-20.0'	EPA 7196 Modified	90239		

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603774134	B19R-.5'	EPA 7196 Modified	90239		
603774142	B19R-2.5'	EPA 7196 Modified	90239		
603774159	B19R-5.0'	EPA 7196 Modified	90239		
603774167	B19R-7.5'	EPA 7196 Modified	90239		
603774175	B19R-10.0'	EPA 7196 Modified	90239		
603774183	B19R-12.5'	EPA 7196 Modified	90239		
603776527	B17R-7.5	EPA 7196 Modified	90239		
603774209	WASTE SOIL	EPA 8150	90252	EPA 8150	90461

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BORING SAMPLE
CHAINS OF CUSTODY

Quality Analytical Services

1633 S. Marsh * Box 266426 * Kansas City, MO. * (816) 254-5257

CHAIN-OF-CUSTODY RECORD and Analytical Requests

Client: DEFFENBAUGH

Address: 18181 - W. 53rd ST.
SHAWNEE, KS 66217

Phone: 913 631-3300 Fax:

Report To: MICH COSSAIRT

Bill To:

P.O.# / Billing Reference

Project Name / No.: ISCKC - RFI

QAS Client No.:

QAS Project Manager:

QAS Project No.: 6044358

Requested Due Date:

Sampled By (PRINT): JASON DAVIS

Sampler Signature: [signature] Date: 8-25-00

ITEM NO	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT.	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUESTED (BE SPECIFIC): Semi Vol	Pesticide	Hex Chrome			REMARKS
1.	B18R - .5'	8-25-00	SOIL		1-8oz 2-4oz					X	X	X	3	6oz	603774043
2.	B18R - 2.5'				1-8oz 2-4oz					X	X	X	3	6oz	603774050
3.	B17R - .5'				1-8oz					X	X	X		6oz	603774068
4.	B17R - 2.5'				1-8oz					X	X	X			603774076
5.	B17R - 7.0'				1-8oz					X	X	X			603774084
6.	DUPLICATE				1-8oz					X	X	X			603774092

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
					Jason Davis DFI	[signature] QAS	8-25-00	1335

Additional Comments:

B17R-7.5 Semi Vol. Pesticide Hexchrome analyses per MICH COSSAIRT 8/28/00 [signature]

PART 1 - ORIGINAL
PART 2 - TRANSFER
PART 3 - CUSTOMER

SEE REVERSE SIDE FOR INSTRUCTIONS

49.19

Quality Analytical Services

CHAIN-OF-CUSTODY RECORD and Analytical Requests

1633 S. Marsh * Box 266426 * Kansas City, MO. * (816) 254-5257

Client: DeFenbaugh

Address: 18181 W. 53rd ST.
Shawnee, KS 66217

Phone: 913 631-3300 Fax:

Report To: Mick Cossairt

Bill To:

P.O.# / Billing Reference:

Project Name / No. ISC-KC RFI

QAS Client No.:

QAS Project Manager:

QAS Project No. 6044352

* Requested Due Date:

Sampled By (PRINT): Jason Davis

Sampler Signature: [signature] Date: 8-25-00

ITEM NO	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT.	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES.	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUESTED (BE SPECIFIC)	Semi-vol	Pesticide	Hex Chrome			REMARKS
1.	B19R - .5'	8-25-00	soil		1-8oz						X	X	X		SN	603774134
2.	B19R - 2.5'				1-8oz						X	X	X			603774142
3.	B19R - 5.0'				1-8oz						X	X	X			603774159
4.	B19R - 7.5'				1-8oz						X	X	X			603774167
5.	B19R 10.0'				1-8oz						X	X	X			603774175
6.	B19R - 12.5'				1-8oz						X	X	X			603774183

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
					Jason Davis DIF	[signature] Pace	8-25-00	1335

Additional Comments:

PART 1 - ORIGINAL
PART 2 - TRANSFER
PART 3 - CUSTOMER

SEE REVERSE SIDE FOR INSTRUCTIONS

4980

Quality Analytical Services

CHAIN-OF-CUSTODY RECORD and Analytical Requests

1633 S. Marsh * Box 266426 * Kansas City, MO. * (816) 254-5257

Client: DeFFenbaugh

Address: 18181 W. 53rd ST.
Shawnee, KS. 66217

Phone: 913 631-3300 Fax:

Report To: MICK COSSAIRT

Bill To:

P.O.# / Billing Reference

Project Name / No. ISCKC-RFI

QAS Client No.

QAS Project Manager

QAS Project No. 6044350

* Requested Due Date:

Sampled By (PRINT): JASON DAVIS

Sampler Signature: Jason Davis Date:

ITEM NO	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT.	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES.	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUESTED (BE SPECIFIC)	Semi-vol	Pesticides	Hex chrome	OA1	TCLP-VOC, semi-vol metals, herbs	TCLP pesticide & PCB	REMARKS
1.	B19R-15.0	8-25-00	Soil		1-8oz					GN	X	X	X				603774100
2.	B19R-17.5'				1-8oz					GN	X	X	X				60377418
3.	B19R-20.0'				1-8oz					GN	X	X	X				603774126
4.	WASTE SOIL	8-25-00	Soil		1-8oz 2-4oz					3GN				X	X	X	NOT PART OF RFI
5.																	603774209
6.																	

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
					Jason Davis DIF	[signature]	8-25-00	1335

Additional Comments:

PART 1 - ORIGINAL
PART 2 - TRANSFER
PART 3 - CUSTOMER

SEE REVERSE SIDE FOR INSTRUCTIONS

Dioxins

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PASE LAB ID		EX1 SURFACE 2053725		EX2 SURFACE 2081270		EX3 SURFACE 2081288		EX4 SURFACE 2082724		EX5 SURFACE 2081296	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	0	0	0	0	0	0	0	0	0.81	0.81
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	0	0	0	0	2.3	0.23	0	0	0	0
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDF	0.010	8.7	0.087	0	0	5.8	0.058	0	0	0	0
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	60	0.6	0.91	0.0091	42	0.42	0	0	17	0.17
1,2,3,4,6,7,8,9-OCDF	0.001	29	0.029	0	0	33	0.033	0	0	16	0.016
1,2,3,4,6,7,8,9-OCDD	0.001	800	0.8	5.5	0.0055	500	0.5	3.7	0.0037	200	0.2
WEIGHTED TOTAL (ng/kg)			1.52E+00		1.46E-02		1.24E+00		3.70E-03		1.20E+00
WEIGHTED TOTAL (mg/kg)			1.52E-06		1.46E-08		1.24E-06		3.7E-09		1.2E-06

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX6 BASE 5 FEET 2082732		EX6 SURFACE SURFACE 2081312		EX8 BASE 12 FEET 2081338		EX8MIDDLE 6 FEET 2081346		EX8 SURFACE SURFACE 2081320	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	1.9	0.19	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	0	0	6.4	6.4	0	0	0	0	26	26
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	13	6.5	0	0	0	0	5.8	2.9
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	9.1	0.91	0	0	0	0	6.8	0.68
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	0	0	12	1.2	0	0	0	0	15	1.5
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDF	0.010	0	0	34	0.34	0	0	0	0	35	0.35
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	15	0.15	140	1.4	0	0	1	0.01	170	1.7
1,2,3,4,6,7,8,9-OCDF	0.001	14	0.014	79	0.079	0	0	0	0	98	0.098
1,2,3,4,6,7,8,9-OCDD	0.001	340	0.34	2800	2.8	7	0.007	9.2	0.0092	2000	2
WEIGHTED TOTAL (ng/kg)			5.04E-01		1.98E+01		7.00E-03		1.92E-02		3.52E+01
WEIGHTED TOTAL (mg/kg)			5.04E-07		1.98E-05		7E-09		1.92E-08		3.52E-05

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX9 12 FEET 2081353		EX10 12 FEET 2081361		EX12 BASE 12 2082757		EX12 MIDDLE 6 FEET 2082740		EX12 SURFACE SURFACE 2081379	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0.82	0.082
2,3,7,8-TCDD	1.000	0	0	0	0	1.2	1.2	0	0	1.1	1.1
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	2.7	0.27	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	2.3	0.23
1,2,3,6,7,8-HXCDD	0.100	0	0	4	0.4	0	0	0	0	21	2.1
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	8.4	0.84
1,2,3,4,6,7,8-HPCDF	0.010	3.6	0.036	0	0	0	0	1.7	0.017	25	0.25
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	9.8	0.098	13	0.13	12	0.12	17	0.17	180	1.8
1,2,3,4,6,7,8,9-OCDF	0.001	0	0	7.7	0.0077	0	0	7.5	0.0075	74	0.074
1,2,3,4,6,7,8,9-OCDD	0.001	81	0.081	82	0.082	120	0.12	1800	1.8	2000	2
WEIGHTED TOTAL (ng/kg)			4.85E-01		6.20E-01		1.44E+00		1.99E+00		8.48E+00
WEIGHTED TOTAL (mg/kg)			4.85E-07		6.2E-07		1.44E-06		1.99E-06		8.48E-06

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3

SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX13 BASE 12 FEET 2081395		EX13 MIDDLE 6 FEET 2081403		EX13 SURFACE SURFACE 2081387		EX14 BASE 12 FEET 2081429		EX14 MIDDLE 6 FEET 2082765	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	3.4	0.34	7.8	0.78	0	0	9.9	0.99	0	0
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	4	0.4	0	0
1,2,3,4,6,7,8-HPCDF	0.010	5.7	0.057	0	0	0	0	0	0	0	0
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	23	0.23	30	0.3	39	0.39	22	0.22	0	0
1,2,3,4,6,7,8,9-OCDF	0.001	14	0.014	0	0	27	0.027	0	0	0	0
1,2,3,4,6,7,8,9-OCDD	0.001	110	0.11	210	0.21	380	0.38	110	0.11	5	0.005
WEIGHTED TOTAL (ng/kg)			7.51E-01		1.29E+00		7.97E-01		1.72E+00		5.00E-03
WEIGHTED TOTAL (mg/kg)			7.51E-07		1.29E-06		7.97E-07		1.72E-06		5E-09

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX14 SURFACE SURFACE 2081445		DUPLICATE 2081452		EX7 9 FEET 2145356		EX11 BASE 5 FEET 2145364		EX11 SURFACE SURFACE 2145372	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	3.9	3.9	0	0	0	0	0	0	10	10
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	0	0	9.2	0.92	0	0	0	0	0	0
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDF	0.010	8.5	0.085	0	0	0	0	0	0	62	0.62
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	43	0.43	16	0.16	0	0	0	0	300	3
1,2,3,4,6,7,8,9-OCDF	0.001	20	0.02	0	0	0	0	0	0	470	0.47
1,2,3,4,6,7,8,9-OCDD	0.001	470	0.47	78	0.078	95	0.095	25	0.025	3300	3.3
WEIGHTED TOTAL (ng/kg)			4.91E+00		1.16E+00		9.50E-02		2.50E-02		1.74E+01
WEIGHTED TOTAL (mg/kg)			4.91E-06		1.16E-06		9.5E-08		2.5E-08		1.74E-05

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

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DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
Deffenbaugh Industries
Attn: Mick Cossart
18181 West 53rd Street
Shawnee, KS 66217

Project: Chemical Analysis

Client Purchase Order Number: NA

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

PROJECT: **PCDD/PCDF ANALYSES**

DATE: August 2, 2000

ISSUED TO: Deffenbaugh Industries
Attn: Mr. Mick Cossairt
18181 West 53rd Street
Shawnee, KS 66217

REPORT NO: 00-1033084

INTRODUCTION

This report presents the results from the analyses performed on twenty-five samples which were submitted by a representative of Deffenbaugh Industries. The samples were analyzed for the presence or absence of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) using a modified version of USEPA Method 8290 as described below.

SAMPLE IDENTIFICATION

C[illegible] ID	Sample Type	Date Received	Pace ID
EX1	Solid	05/25/00	2053725
EX2	Solid	06/12/00	2081270
EX3	Solid	06/12/00	2081288
EX5	Solid	06/12/00	2081296
EX6 Surface	Solid	06/12/00	2081312
EX8 Surface	Solid	06/12/00	2081320
EX8 Base	Solid	06/12/00	2081338
EX8 Middle	Solid	06/12/00	2081346
EX9	Solid	06/12/00	2081353
EX10	Solid	06/12/00	2081361
EX12 Surface	Solid	06/12/00	2081379
EX13 Surface	Solid	06/12/00	2081387
EX13 Base	Solid	06/12/00	2081395
EX13 Middle	Solid	06/12/00	2081403
EX14 Base	Solid	06/12/00	2081429
EX14 Surface	Solid	06/12/00	2081445
Dup	Solid	06/12/00	2081452

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

SAMPLE IDENTIFICATION (Cont.)

Client ID	Sample Type	Date Received	Pace ID
EX4	Solid	06/13/00	2082724
EX6 Base	Solid	06/13/00	2082732
EX12 Middle	Solid	06/13/00	2082740
EX12 Base	Solid	06/13/00	2082757
EX14 Middle	Solid	06/13/00	2082765
EX7	Solid	07/14/00	2145356
EX11 Base	Solid	07/14/00	2145364
EX11 Surface	Solid	07/14/00	2145372

METHODOLOGY

Sample Extraction

A portion of each sample was spiked with $^{13}C_{12}$-labeled PCDD/PCDF internal standards (Table 1) and extracted with toluene in a Soxhlet extractor. The extract was quantitatively transferred to a Kuderna-Danish concentrator, concentrated, and solvent exchanged to hexane. The hexane extract was then spiked with 2,3,7,8-TCDD-$^{37}Cl_4$ enrichment efficiency standard (Table 1) and processed through the analyte enrichment procedures described below. Moisture content was determined by taking an aliquot of each solid sample to constant weight in an oven.

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PCDD/PCDF Analyte Enrichment

The extraction procedure often removes a variety of compounds, in addition to the PCDDs and PCDFs, from the sample matrix. Some of these compounds can directly interfere with the analyses while others can overload the capillary column causing degradation in chromatographic resolution or sensitivity. The analyte enrichment steps described below are used to remove interferences from the extracts.

Each extract was diluted to 100 mL with hexane, transferred to a separatory funnel, and washed with 1N sodium hydroxide, concentrated sulfuric acid, and aqueous sodium chloride (5% w/v) as needed. The hexane extract was quantitatively transferred to a liquid chromatography column containing alternating layers of silica gel, 40% concentrated sulfuric acid on silica gel, and 33% 1 N sodium hydroxide on silica gel. The column was eluted with 90 mL of hexane and the entire eluate was collected and concentrated, under ambient conditions, to a volume of 1 mL.

E[illegible] extract was then fractionated on a liquid chromatography column containing 4 g of activated a[illegible]ina. The column was eluted with 20 mL of hexane followed by 15 mL of 60% methylene chloride/hexane. The 60% methylene chloride/hexane fraction was concentrated to 1 mL under a stream of dry nitrogen and applied to the top of a chromatography column containing 1 g of 5% AX-21 activated carbon in silica gel. The column was eluted with two 2-mL portions of hexane, 2 mL of cyclohexane/methylene chloride (50:50 v/v) and cyclohexane/methanol/toluene (75:20:5 v/v) in the forward direction, and then with toluene in the reverse direction. The toluene fraction was collected, concentrated, spiked with recovery standards (1,2,3,4-TCDD-$^{13}C_{12}$ and 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$) and taken to a final volume of 20 uL.

PCDD/PCDF Analyses

Each sample extract was analyzed for the presence of PCDDs and PCDFs using combined capillary column gas chromatography/high resolution mass spectrometry (HRGC/HRMS). The instrumentation consisted of a Hewlett Packard Model 5890 gas chromatograph interfaced to a VG Model 70SE high-resolution mass spectrometer. The capillary column was interfaced directly into the ion source of the mass spectrometer, thus providing the highest possible sensitivity while minimizing degradation of the chromatographic resolution.

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PCDD/PCDF Analyses (Cont.)

The mass spectrometer was operated in the electron impact ionization mode at a mass resolution of 10,000-11,000 (M/ΔM, 10 percent valley definition). This resolution is sufficient to resolve most interferences, such as PCBs, thus providing the highest level of confidence that the detected levels of PCDD/PCDF were not false positives resulting from interferences. Typical operating parameters for the HRGC/HRMS analyses are summarized in Table 2.

The data were acquired by selected-ion-recording (SIR) using groups of ion masses similar to those described in USEPA Method 8290. The five groups corresponded to the tetrachlorinated through octachlorinated congener classes. Each group contained two ion masses for the PCDDs, two ion masses for the PCDFs, the corresponding ion masses from the two isotopically labeled internal standards, and the ion mass characteristic of the polychlorinated diphenylether (PCDE) which, if present, could cause false responses in the dibenzofuran channels.

Each group of ion masses also contained a lock mass which was used by the data system to automatically correct the mass focus of the instrument. The data system determined the centroid of the lock mass during each data acquisition cycle and corrected the mass focus of the analyte and internal standard ion masses to assure that the centers of the mass peaks were being monitored.

The criteria used to judge positive responses for a PCDD/PCDF isomer included:

* Simultaneous response at both ion masses of the PCDD or PCDF
* Signal-to-noise ratio equal to or greater than 2.5:1.0 for both ion masses
* Chlorine isotope ratio within 15% of the theoretical value
* Chromatographic retention time within +/- 2 seconds of the expected retention time
* Chromatographic retention times within elution windows determined from analyses of standard mixtures
* Absence of simultaneous response in the PCDF and PCDPE ion traces

A list of the exact ion masses monitored for the determination of PCDD/PCDF isomers and the PCDE interferences is presented in Table 3. Also included are the theoretical chlorine isotope ratios for the ten congener classes.

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REPORT OF: CHEMICAL ANALYSES

PCDD/PCDF Quantification and Calculations

The PCDD/PCDF isomers were quantified by comparison of their responses to the responses of the labeled internal standards. Relative response factors were calculated from analyses of standard mixtures containing representatives of each of the PCDD/PCDF congener classes at five concentration levels, and each of the internal standards at one concentration level, as shown in Table 4. The PCDD/PCDF response factors were calculated by comparing the sum of the responses from the two ion masses monitored for each chlorine congener class to the sum of the responses from the two ion masses of the corresponding isotopically labeled internal standard. The formula for the response factor calculation is:

$$Rf = \frac{An \times Qis}{Ais \times Qn}$$

where:

Rf = Response factor
An = Sum of integrated areas for native isomer
Qis = Quantity of labeled internal standard
Ais = Sum of integrated areas for labeled internal standard
Qn = Quantity of native isomer

The levels of PCDD/PCDF in each sample were quantified using the following equation:

$$C = \frac{An \times Qis}{Ais \times W \times Rf}$$

where:

C = Concentration of target isomer or congener class
An = Sum of integrated areas for the target isomer or congener class
Qis = Quantity of labeled internal standard added to the sample
Ais = Sum of integrated areas for the labeled internal standard
W = Sample amount
Rf = Response factor

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PCDD/PCDF Quantification and Calculations (Cont.)

Each pair of ion mass peaks in the selected-ion-current chromatograms was evaluated manually to determine if it met the criteria for a PCDD or PCDF isomer. Areas of all peaks exhibiting correct ion ratios, having retention times within the correct windows, and having areas corresponding to concentrations in the range covered by the initial calibration were then summed for calculations of total congener concentrations. The toxic equivalence of each sample was calculated using the factors listed in Table 5.

A limit of detection (LOD) based on producing a signal that is 2.5 times the noise level, was calculated for each undetected 2,3,7,8-substituted isomer of any tetra through octa chlorinated congener class. The noise heights used to calculate the detection limits were measured at the retention time of the specific isomer. The formula used for calculating the LOD is:

$$LOD = \frac{Hn \times Qis \times 2.5}{His \times W \times Rf}$$

where:

LOD = Single isomer limit of detection
Hn = Sum of noise heights at native isomer retention time
Qis = Quantity of labeled internal standard
His = Sum of peak heights for labeled internal standard
W = Sample amount
Rf = Response factor

The recovery of the 2,3,7,8-TCDD-$^{37}Cl_4$ enrichment efficiency standard and each $^{13}C_{12}$-labeled internal standard, relative to either 1,2,3,4-TCDD-$^{13}C_{12}$ or 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$, was calculated using the following equation:

$$\%R = \frac{Ais \times Qrs \times 100\%}{Rfr \times Ars \times Qis}$$

where:

%R = Percent recovery of labeled internal standard
Ais = Sum of integrated areas of labeled internal standard
Qrs = Quantity of recovery standard
Ars = Sum of integrated areas of recovery standard
Rf[illegible] = Response factor of the specific labeled internal standard relative to the recovery standard
[illegible] = Quantity of the labeled internal standard congener added to the sample

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Quality Control for PCDD/PCDF Analyses

The performance of the sample processing steps and the instrumentation are monitored on a routine basis. The procedures and criteria are summarized below.

One method blank and one laboratory spike sample are typically prepared with each ten samples of any given matrix. Recoveries of the native PCDD/PCDF analytes in the laboratory spike samples generally range from 70 to 130%. Recoveries of selected analytes outside this range do not invalidate the data but provide information, which is used by the laboratory to monitor recovery trends and to assure optimization of the method.

Internal standards are spiked into each sample prior to extraction in order to monitor the level of recovery, which is achieved for each individual sample. Acceptable recoveries range from 40 to 135 percent for the internal standards unless a deviation is due to variation in instrument response as a result of analytical interferences.

The resolution of the mass spectrometer is verified prior to each analysis to be 10,000 or greater. Hardcopies of the reference peaks are printed at the beginning and end of each analysis day. The resolving power of the DB-5MS chromatographic column is checked daily by analyzing a standard solution containing 2,3,7,8-TCDD and the adjacent TCDD isomers. The DB-225 column resolution is checked daily by analyzing a standard solution containing 2,3,7,8-TCDF and the adjacent TCDF isomers. Acceptable performance is achieved when 2,3,7,8-TCDD or 2,3,7,8-TCDF is resolved from the adjacent isomers by a valley of 25% or less. The group times for the selected-ion-monitoring data acquisitions are also checked daily by analyzing the column performance mix which has been modified to contain the first and last eluting isomers of each congener class. In this way one is assured of collecting data representative of the total PCDD/PCDF content and that the 2,3,7,8-substituted isomers are suitably resolved.

Initial calibrations are generated by analyzing standard solutions (see Table 4) containing target native and labeled PCDD/PCDF compounds. Response factors are calculated and averaged for each compound. These averages are used for quantification and for comparison to the daily continuing calibration. The relative standard deviation for each native compound must be 20% or less (30% or less for the labeled compounds) as specified in Method 8290. A continuing calibration standard is analyzed at the beginning and end of each 12-hour shift on days when initial calibrations are not performed. The initial calibration is considered to be valid when the response factors from the continuing calibration analysis fall to within the ranges specified in Method 8290.

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Fax: 612.607.6444

RESULTS

The results from the analyses are presented in the following:

Appendix A - Documentation
Appendix B - PCDD/PCDF Analysis Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts generally ranged from 40-131% and indicate a level of efficiency through the extraction and enrichment steps that is considered typical for this matrix. Slightly lower recoveries were obtained for several internal standards, however, since the quantifications of the native 2,3,7,8-substituted isomers were based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained. It should be noted that sample EX-1 required re-extraction. This re-extraction was performed beyond the recommended hold time for method 8[illegible].

Several samples were found to contain polychlorinated diphenylethers (PCDEs) and other compounds, which interfere with the determination of co-eluting PCDD and PCDF isomers. Any responses in the PCDF ion traces with corresponding responses in the PCDE ion traces are not included in the reported PCDF concentrations. Any affected 2,3,7,8-substituted isomers are flagged "E" or "I" on the data summary sheets.

Laboratory method blanks were prepared and analyzed with each sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blanks to contain selected PCDDs and PCDFs isomers. Several samples contained these isomers at levels similar to those seen in the blanks and are flagged "B" on the data summary sheets. In general, levels less than ten times the background are not considered statistically different from the background. This indicates that the sample preparation procedures did not significantly impact the results of the field sample determinations.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample material that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 78-122% with relative percent differences of 1.9-16.3%. This indicates high degrees of accuracy and precision for these determinations. It should be noted that only 50% of the normal internal standard amount was added to spike 072000. This was accounted for in the calculation and yielded acceptable analyte recoveries.

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REPORT OF: CHEMICAL ANALYSES

PROJECT: **PCDD/PCDF ANALYSES** **DATE:** August 2, 2000

 REPORT NO: 00-1033084

REMARKS

The sample extracts will be retained for a period of 30 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the authors at the numbers provided below.

Pace Analytical Services, Inc.

Charles V. Sueper, Manager
High Resolution Mass Spectrometry
(612) 607-6387

Scott C. Unze
Project Manager, Dioxins
(612) 607-6383

REPORT OF LABORATORY ANALYSIS
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TABLE 1. Spike Levels of PCDD/PCDF Standards

Internal Standards	Spike Level (ng)
2,3,7,8-TCDF-$^{13}C_{12}$	2.0
2,3,7,8-TCDD-$^{13}C_{12}$	2.0
1,2,3,7,8-PeCDF-$^{13}C_{12}$	2.0
2,3,4,7,8-PeCDF-$^{13}C_{12}$	2.0
1,2,3,7,8-PeCDD-$^{13}C_{12}$	2.0
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	2.0
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	2.0
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	2.0
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	2.0
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	2.0
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	2.0
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	2.0
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	2.0
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	2.0
OCDD-$^{13}C_{12}$	4.0
Recovery Standards	
1,2,3,4-TCDD-$^{13}C_{12}$	2.0
1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	2.0
Enrichment Efficiency Standard	
2,3,7,8-TCDD-$^{37}Cl_4$	0.2

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TABLE 2. High Resolution PCDD/PCDF Analyses HRGC/HRMS Operating Parameters

Mass Resolution	10,000-11,000 (M/ΔM, 10% valley)
Electron Energy	32 electron volts
Accelerating Voltage	8,000 volts
Source Temperature	275°C
Preamplifier Gain	10^{-6} amp/volt
Multiplier Gain	~10^{5}
Chromatographic Column	60 M DB-5MS
Transfer Line Temperature	260°C
Injection Mode	Splitless
Carrier Gas	Helium
Carrier Flow Velocity	~30 cm/sec

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TABLE 3. Exact Ion Masses Monitored for the Determination of PCDDs, PCDFs, and PCDEs

Ratio Compound	Accurate Mass Mass 1	Accurate Mass Mass 2	Theoretical Mass 1/Mass 2
Tetra-CDDs	319.8965	321.8936	0.77
Tetra-CDFs	303.9016	305.8987	0.77
Hexa-CDPEs	375.8364		
Penta-CDDs	355.8546	357.8517	1.54
Penta-CDFs	339.8597	341.8567	1.54
Hepta-CDPEs	409.7974		
Hexa-CDDs	389.8156	391.8127	1.23
Hexa-CDFs	373.8207	375.8178	1.23
Octa-CDPEs	445.7555		
Hepta-CDDs	423.7766	425.7737	1.03
Hepta-CDFs	407.7817	409.7788	1.03
Nona-CDPEs	479.7165		
Octa-CDD	457.7377	459.7347	0.88
Octa-CDF	441.7428	443.7398	0.88
Deca-CDPE	513.6775		

CDDs = Chlorinated Dibenzo-p-dioxins
CDFs = Chlorinated Dibenzofurans
CDPEs = Chlorinated Diphenylethers

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TABLE 4. High Resolution Calibration Solutions

	Concentration (pg/uL)				
Native CDDs/CDFs	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**
2,3,7,8-TCDD	0.5	2	10	40	200
2,3,7,8 TCDF	0.5	2	10	40	200
1,2,3,7,8-PeCDD	2.5	10	50	200	1000
1,2,3,7,8-PeCDF	2.5	10	50	200	1000
2,3,4,7,8-PeCDF	2.5	10	50	200	1000
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000
OCDD	5.0	20	100	400	2000
OCDF	5.0	20	100	400	2000
Internal Standards					
2,3,7,8-TCDD-$^{13}C_{12}$	100	100	100	100	100
2,3,7,8-TCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8-PeCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100
2,3,4,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	100	100	100	100	100
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	100	100	100	100	100
OCDD-$^{13}C_{12}$	200	200	200	200	200
Recovery Standards					
1,2,3,4-TCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	100	100	100	100	100
Enrichment Efficiency Standard					
2,3,7,8-TCDD-$^{37}C1_4$	0.5	2	10	40	200

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TABLE 5. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
[illegible]	2,3,4,7,8-PeCDF	0.5
[illegible]	1,2,3,6,7,8-HxCDF	0.1
[illegible]	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: 1989 ITEFs

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Appendix A

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Quality
Analytical Services

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1033084

CHAIN-OF-CUSTODY RECORD and Analytical Requests

Client: DEFFENBAUGH
Address: 15 P.O. BOX 3220
SHAWNEE, KS 66203
Phone: 913 631-3300 Fax:

Report To: MICK COSSAIRT
Bill To: RODNEY MANN
P.O.# / Billing Reference
Project Name / No.: ISC-KC : BFI

QAS Client No.
QAS Project Manager
QAS Project No.
* Requested Due Date: NTA

Sampled By (PRINT): MICK COSSAIRT
Sampler Signature: Mick Cossairt Date: 5/24/00

ITEM NO	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT.	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES.	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUESTED (BE SPECIFIC): DIOXIN 8290	REMARKS
1.	EX1	5/24/00 09:15	SOIL		1					X	2053725
2.											
3.											
4.											
5.											
6.											

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
					Rodney D. Mann	[illegible]	5/25/00	1128

Additional Comments:

PART 1 - ORIGINAL
PART 2 - TRANSFER
PART 3 - CUSTOMER

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Page: 1 of 2

Required Client Information: Section A

Company: PACE DEFFENBAUGH
Address: 18181 W. 53rd
SHAWNEE, KS 66217
Phone: 913 631-3300 Fax: 631-3996

Required Client Information: Section B

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.:
Project Name: ISC, KC - RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager:
Project #: 1037617
Profile #:

Section D Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analysis: DIOXIN	Remarks / Lab ID
1	EX2	SL	6/9/00	13:35	1	X						X	2081270
2	EX3			13:45									2081288
3	EX5			13:50									2081296
4	EX6 SURFACE			13:55									2081312
5	EX8 SURFACE			14:45									2081320
6	EX8 BASE			14:25									2081338
7	EX8 MIDDLE			14:35									2081346
8	EX9			14:00									2081353
9	EX10			14:05									2081361
10	EX12 SURFACE			14:50									2081379
11	EX13 SURFACE			15:00									2081387
12	EX13 BASE			14:30									2081395

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	20								
Received on ICE:	Y / N	Warm blue ice							
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SENT TO PACE MN

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICK COSSAIRT
SIGNATURE of SAMPLER: Mick Cossairt
DATE Signed: (MM / DD / YY) 6-9-00

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Page: 2 of 2

Required Client Information: Section A

Company: DEFFENBAUGH
Address: 18181 W. 53rd
SHAWNEE, KS 66217
Phone: 913 631 3300 Fax: 631 3996

Required Client Information: Section B

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.:
Project Name: TSC, KC - RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 1033617
Profile #:

Section D Required Client Information:

Valid Matrix Codes: MATRIX / CODE — WATER WT, SOIL SL, OIL OL, WIPE WP, AIR AR, TISSUE TS, OTHER OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN	Remarks / Lab ID
1	EX13 MIDDLE	SL	6/9/00	14:20	1	X						X	2081403
2	EX14 BASE	↓	↓	14:10	↓	↓							2081429
3	EX14 SURFACE	↓	↓	14:55	↓	↓							2081445
4	DUP	↓	↓	15:05	↓	↓							2081452
5													
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	20							6/12/00	1110
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SENT TO PACE, MN

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICK COSSAIRT
SIGNATURE of SAMPLER: Mick Cossairt
DATE Signed: (MM / DD / YY) 6-9-00

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Page: 1 of 1

To Be Completed by Pace Analytical and Client

Required Client Information: Section A

Company: DEFFenbaugh
Address: 18181 W. 53rd ST
Shawnee, KS 66217
Phone: 631-3300 Fax: 631 3996

Required Client Information: Section B

Report To: Mick Cossiart
Invoice To: Rodney Mann
P.O.:
Project Name: ISC-KC RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C

Quote Reference:
Project Manager:
Project #: 1033641
Profile #:

Section D Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes ◄

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: DIOXIN

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN	Remarks / Lab ID
1	EX4	SL	6/9/00	11:00	1	X						X	2082724
2	EX6 BASE			11:15	1	X						X	2082732
3	EX12 MIDDLE			11:25	1	X						X	2082740
4	EX12 BASE			11:35	1	X						X	2082757
5	EX14 MIDDLE			11:45	1	X						X	2082765
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	19			Mick Cossiart	6/12		[signature]	6/13/00	1120
Received on ICE:	Y / (N)	- Bag of water							
Sealed Cooler:	Y / (N)								
Samples Intact:	(Y) / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICK COSSIART
SIGNATURE of SAMPLER: Mick Cossiart
DATE Signed: (MM / DD / YY) 6-12-00

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

537353

Page: 1 of 1

To Be Completed by Pace Analytical and Client

Section A — Required Client Information:

Company: DEFFENBAUGH
Address: P.O. BOX 3220
SHAWNEE, KS 66203
Phone: 913 631 3300 Fax: 631-3996

Section B — Required Client Information:

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.
Project Name: TSC - KC RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C

Quote Reference:
Project Manager:
Project #: 10 34661
Profile #: 8828

Requested Analysis: DIOXIN 8290 T-O

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / .-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh: mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN 8290 T-O	Remarks / Lab ID
1	EX7	SL	7/13/00	11:00	1	X						X	714/5356
2	EX11 BASE	SL	7/13/00	11:30	1	X						X	364
3	EX11 SURFACE	SL	7/13/00	11:15	1	X						X	372
4													
5													
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8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	2			Rodney P. Mann	7/14/00	16:10		7/14/00	1445
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICK COSSAIRT

SIGNATURE of SAMPLER: Mick Cossairt

DATE Signed: (MM / DD / YY) 7-13-00

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

Phone: 612.607.1700
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Appendix B

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-061900	Matrix	SOLID
Filename	V00622E	Dilution	NA
Total Amount Extracted	10.18 g	Extracted	06/19/2000
ICAL Date	NA	Analyzed	06/22/2000 12:47
CCal Filename(s)	V00622C & V00622K	Injected By	DGP

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.33	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	-----	0.33	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.54	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	0.54	1,2,3,7,8-PeCDD-13C	2.00	81
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	0.54	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	0.47	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.50	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	-----	0.87	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	0.87	1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.70	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.51	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.67			
1,2,3,7,8,9-HxCDF	ND	-----	0.71	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.64	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.86	2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	ND	-----	0.85			
1,2,3,7,8,9-HxCDD	ND	-----	0.98			
Total HxCDD	ND	-----	0.90			
1,2.3,4,6,7,8-HpCDF	ND	-----	0.66	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.84	Equivalence: 0.0028 ng/Kg		
Total HpCDF	ND	-----	0.75	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.85			
Total HpCDD	ND	-----	0.85			
OCDF	ND	-----	1.50			
OCDD	2.8	-----	1.30 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Fax: 612- 607-6444

Pace Analytical™

Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-062100	Matrix	SOLID
Filename	V00713C	Dilution	NA
Total Amount Extracted	10.15 g	Extracted	06/21/2000
ICAL Date	07/12/2000	Analyzed	07/13/2000 11:00
CCal Filename(s)	V00713B & V00713K	Injected By	MASB

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.19	0.075	I	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	-----	0.075		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	0.38	-----	0.160	J	1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	-----	0.29	0.093	I	1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	-----	0.32	0.150	I	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.120		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	-----	0.31	0.190	I	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	0.190		1,2,3,4,6,7,8-HpCDF-13C	2.00	86
					1,2,3,4,7,8,9-HpCDF-13C	2.00	97
1,2,3,4,7,8-HxCDF	-----	0.20	0.150	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	101
1,2,3,6,7,8-HxCDF	0.36	-----	0.160	J	OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	-----	0.29	0.120	I			
1,2,3,7,8,9-HxCDF	0.50	-----	0.140	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.86	-----	0.140	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.340		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	-----	0.36	0.290	I			
1,2,3,7,8,9-HxCDD	-----	0.30	0.270	I			
Total HxCDD	ND	-----	0.300				
1,2,3,4,6,7,8-HpCDF	0.27	-----	0.140	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.41	-----	0.160	J	Equivalence: 0.10 ng/Kg		
Total HpCDF	0.67	-----	0.150	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.76	-----	0.260	J			
Total HpCDD	0.76	-----	0.260	J			
OCDF	0.60	-----	0.310	J			
OCDD	-----	2.20	0.200	I			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-062700	Matrix	SOLID
Filename	V00720D	Dilution	NA
Total Amount Extracted	10.07 g	Extracted	06/27/2000
ICAL Date	07/12/2000	Analyzed	07/20/2000 11:13
CCal Filename(s)	V00720C & V00720M	Injected By	DGP

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.18		2,3,7,8-TCDF-13C	2.00	113
Total TCDF	ND	-----	0.18		2,3,7,8-TCDD-13C	2.00	122
					1,2,3,7,8-PeCDF-13C	2.00	122
2,3,7,8-TCDD	ND	-----	0.28		2,3,4,7,8-PeCDF-13C	2.00	127
Total TCDD	0.43	-----	0.28	J	1,2,3,7,8-PeCDD-13C	2.00	134
					1,2,3,4,7,8-HxCDF-13C	2.00	113
1,2,3,7,8-PeCDF	0.22	-----	0.20	J	1,2,3,6,7,8-HxCDF-13C	2.00	123
2,3,4,7,8-PeCDF	-----	0.27	0.22	I	2,3,4,6,7,8-HxCDF-13C	2.00	123
Total PeCDF	0.22	-----	0.21	J	1,2,3,7,8,9-HxCDF-13C	2.00	114
					1,2,3,4,7,8-HxCDD-13C	2.00	130
1,2,3,7,8-PeCDD	ND	-----	0.33		1,2,3,6,7,8-HxCDD-13C	2.00	126
Total PeCDD	ND	-----	0.33		1,2,3,4,6,7,8-HpCDF-13C	2.00	124
					1,2,3,4,7,8,9-HpCDF-13C	2.00	119
1,2,3,4,7,8-HxCDF	ND	-----	0.22		1,2,3,4,6,7,8-HpCDD-13C	2.00	128
1,2,3,6,7,8-HxCDF	0.16	-----	0.15	J	OCDD-13C	4.00	111
2,3,4,6,7,8-HxCDF	0.24	-----	0.22	J			
1,2,3,7,8,9-HxCDF	-----	0.29	0.16	I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.40	-----	0.19	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.27		2,3,7,8-TCDD-37Cl4	0.20	123
1,2,3,6,7,8-HxCDD	ND	-----	0.60				
1,2,3,7,8,9-HxCDD	ND	-----	0.51				
Total HxCDD	ND	-----	0.46				
1,2.3,4,6,7,8-HpCDF	ND	-----	0.29		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	-----	0.29	0.27	I	Equivalence: 0.053 ng/Kg		
Total HpCDF	ND	-----	0.28		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.53				
Total HpCDD	ND	-----	0.53				
OCDF	ND	-----	0.55				
OCDD	2.00	-----	0.68	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

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Fax: 612- 607-6444

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Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-072000	Matrix	Solid
Filename	V00801F	Dilution	NA
Total Amount Extracted	10.07 g	Extracted	07/20/2000
ICAL Date	07/12/2000	Analyzed	08/01/2000 13:33
CCal Filename(s)	V00801C & V00801N	Injected By	DGP

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.87	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.87	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	1.50	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	1.50	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	1.20	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	0.78	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	-----	1.00	1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	2.10	1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	ND	-----	2.10	1,2,3,4,6,7,8-HpCDF-13C	2.00	80
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	1.30	1,2,3,4,6,7,8-HpCDD-13C	2.00	93
1,2,3,6,7,8-HxCDF	ND	-----	1.20	OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	-----	1.10			
1,2,3,7,8,9-HxCDF	ND	-----	1.30	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.20	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.10	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	1.60			
1,2,3,7,8,9-HxCDD	ND	-----	1.80			
Total HxCDD	ND	-----	1.80			
1,2.3,4,6,7,8-HpCDF	ND	-----	1.10	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.60	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	1.40	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.00			
Total HpCDD	ND	-----	2.00			
OCDF	ND	-----	2.70			
OCDD	ND	-----	2.90			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1034661

REPORT OF LABORATORY ANALYSIS

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Tel: 612-607-1700
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX1		
Lab Sample ID	2053725		
Filename	V00729Q		
Injected By	TM		
Total Amount Extracted	11.21 g	Matrix	SOIL
% Moisture	10.3	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	05/24/2000
ICAL Date	07/12/2000	Received	05/25/2000
CCal Filename(s)	V00729O & V00729S	Extracted	06/27/2000
Method Blank ID	BLANK-062700	Analyzed	07/30/2000 00:33

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.76	0.22	E	2,3,7,8-TCDF-13C	2.00	102
Total TCDF	1.7	-----	0.22		2,3,7,8-TCDD-13C	2.00	112
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.40		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.40		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	115
1,2,3,7,8-PeCDF	ND	-----	0.68		1,2,3,6,7,8-HxCDF-13C	2.00	120
2,3,4,7,8-PeCDF	ND	-----	0.79		2,3,4,6,7,8-HxCDF-13C	2.00	122
Total PeCDF	2.2	-----	0.73		1,2,3,7,8,9-HxCDF-13C	2.00	100
					1,2,3,4,7,8-HxCDD-13C	2.00	114
1,2,3,7,8-PeCDD	ND	-----	0.60		1,2,3,6,7,8-HxCDD-13C	2.00	131
Total PeCDD	ND	-----	0.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	-----	3.30	1.10	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.96		OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	-----	0.90				
1,2,3,7,8,9-HxCDF	ND	-----	1.10		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	9.7	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.20		2,3,7,8-TCDD-37Cl4	0.20	109
1,2,3,6,7,8-HxCDD	-----	2.50	0.85	I			
1,2,3,7,8,9-HxCDD	-----	2.10	0.65	I			
Total HxCDD	8.4	-----	0.91				
1,2,3,4,6,7,8-HpCDF	8.7	-----	2.20		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.50		Equivalence: 1.5 ng/Kg		
Total HpCDF	28.0	-----	3.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	60.0	-----	2.40				
Total HpCDD	110.0	-----	2.40				
OCDF	29.0	-----	3.40				
OCDD	800.0	-----	3.30				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033084

REPORT OF LABORATORY ANALYSIS

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX2		
Lab Sample ID	2081270		
Filename	V00728O		
Injected By	BAL		
Total Amount Extracted	10.87 g	Matrix	SOIL
% Moisture	3.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 20:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.10		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	-----	0.10		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.34		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	0.35	-----	0.34	BJ	1,2,3,7,8-PeCDD-13C	2.00	88
					1,2,3,4,7,8-HxCDF-13C	2.00	51
1,2,3,7,8-PeCDF	ND	-----	0.29		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	0.31		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.30		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.42		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.42		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	ND	-----	0.23		1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	ND	-----	0.20		OCDD-13C	4.00	97
2,3,4,6,7,8-HxCDF	ND	-----	0.21				
1,2,3,7,8,9-HxCDF	ND	-----	0.18		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.21		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.53		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.60				
1,2,3,7,8,9-HxCDD	ND	-----	0.39				
Total HxCDD	ND	-----	0.51				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.28		Equivalence: 0.015 ng/Kg		
Total HpCDF	ND	-----	0.29		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.91	-----	0.66	BJ			
Total HpCDD	0.91	-----	0.66	BJ			
OCDF	ND	-----	0.54				
OCDD	5.50	-----	0.55	J			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX3		
Lab Sample ID	2081288		
Filename	V00728P		
Injected By	BAL		
Total Amount Extracted	11.7 g	Matrix	SOIL
% Moisture	5.8	Dilution	NA
Dry Weight Extracted	11.0 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 21:04

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.57		2,3,7,8-TCDF-13C	2.00	64
Total TCDF	0.91	-----	0.57		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	59
2,3,7,8-TCDD	ND	-----	0.55		2,3,4,7,8-PeCDF-13C	2.00	57
Total TCDD	ND	-----	0.55		1,2,3,7,8-PeCDD-13C	2.00	63
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.59		1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	-----	0.67		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	1.70	-----	0.63	J	1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	1.30		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	1.30		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	ND	-----	1.20		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	1.00				
1,2,3,7,8,9-HxCDF	ND	-----	1.70		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.40	-----	1.20	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	2.30	-----	1.10	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.10				
Total HxCDD	15.00	-----	1.10				
1,2.3,4,6,7,8-HpCDF	5.80	-----	1.00		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.70		Equivalence: 1.2 ng/Kg		
Total HpCDF	5.80	-----	1.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	42.00	-----	2.30				
Total HpCDD	83.00	-----	2.30				
OCDF	33.00	-----	4.10				
OCDD	500.00	-----	3.00				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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Report No.....00-1033617

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Minneapolis, MN 55414

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX5		
Lab Sample ID	2081296		
Filename	V00728Q		
Injected By	BAL		
Total Amount Extracted	11.77 g	Matrix	SOIL
% Moisture	12.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 22:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.86	0.16	E	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	2.40	-----	0.16		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	0.81	-----	0.73	J	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	0.81	-----	0.73	J	1,2,3,7,8-PeCDD-13C	2.00	59
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.89		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	1.10		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	1.90		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	8.70	-----	1.90		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	1.40		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	1.20		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	1.60				
1,2,3,7,8,9-HxCDF	ND	-----	2.40		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.90		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	1.90				
1,2,3,7,8,9-HxCDD	ND	-----	2.00				
Total HxCDD	23.00	-----	1.90				
1,2,3,4,6,7,8-HpCDF	-----	2.50	0.94	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.20		Equivalence: 1.2 ng/Kg		
Total HpCDF	7.80	-----	2.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	17.00	-----	2.50				
Total HpCDD	34.00	-----	2.50				
OCDF	16.00	-----	6.00				
OCDD	200.00	-----	5.00				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX6 SURFACE		
Lab Sample ID	2081312		
Filename	V00728V		
Injected By	BAL		
Total Amount Extracted	11.15 g	Matrix	SOIL
% Moisture	8.5	Dilution	2
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 03:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	1.9	-----	1.6		2,3,7,8-TCDF-13C	2.00	72	
Total TCDF	48.0	-----	1.6		2,3,7,8-TCDD-13C	2.00	71	
					1,2,3,7,8-PeCDF-13C	2.00	56	
2,3,7,8-TCDD	6.4	-----	2.7		2,3,4,7,8-PeCDF-13C	2.00	48	
Total TCDD	6.4	-----	2.7		1,2,3,7,8-PeCDD-13C	2.00	55	
					1,2,3,4,7,8-HxCDF-13C	2.00	89	
1,2,3,7,8-PeCDF	ND	-----	2.3		1,2,3,6,7,8-HxCDF-13C	2.00	90	
2,3,4,7,8-PeCDF	13.0	-----	1.5		2,3,4,6,7,8-HxCDF-13C	2.00	86	
Total PeCDF	62.0	-----	1.9		1,2,3,7,8,9-HxCDF-13C	2.00	80	
					1,2,3,4,7,8-HxCDD-13C	2.00	88	
1,2,3,7,8-PeCDD	ND	-----	5.6		1,2,3,6,7,8-HxCDD-13C	2.00	99	
Total PeCDD	ND	-----	5.6		1,2,3,4,6,7,8-HpCDF-13C	2.00	57	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49	
1,2,3,4,7,8-HxCDF	-----	13.0	4.8	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	59	
1,2,3,6,7,8-HxCDF	-----	4.9	4.5	I	OCDD-13C	4.00	39	P
2,3,4,6,7,8-HxCDF	9.1	-----	5.9					
1,2,3,7,8,9-HxCDF	ND	-----	6.6		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	72.0	-----	5.5		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	8.7		2,3,7,8-TCDD-37Cl4	0.20	75	
1,2,3,6,7,8-HxCDD	12.0	-----	8.4					
1,2,3,7,8,9-HxCDD	ND	-----	7.4					
Total HxCDD	83.0	-----	8.2					
1,2.3,4,6,7,8-HpCDF	34.0	-----	6.8		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	18.0		Equivalence: 20 ng/Kg			
Total HpCDF	79.0	-----	13.0		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	140.0	-----	25.0					
Total HpCDD	260.0	-----	25.0					
OCDF	79.0	-----	41.0					
OCDD	2800.0	-----	42.0					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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S = Saturated signal
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Fax: 612- 607-6444

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX8 SURFACE		
Lab Sample ID	2081320		
Filename	V00728U		
Injected By	BAL		
Total Amount Extracted	11.36 g	Matrix	SOIL
% Moisture	7.6	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 02:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	1.4		2,3,7,8-TCDF-13C	2.00	70	
Total TCDF	16.0	-----	1.4		2,3,7,8-TCDD-13C	2.00	71	
					1,2,3,7,8-PeCDF-13C	2.00	51	
2,3,7,8-TCDD	26.0	-----	1.9		2,3,4,7,8-PeCDF-13C	2.00	46	
Total TCDD	26.0	-----	1.9		1,2,3,7,8-PeCDD-13C	2.00	48	
					1,2,3,4,7,8-HxCDF-13C	2.00	85	
1,2,3,7,8-PeCDF	-----	20	2.1	E	1,2,3,6,7,8-HxCDF-13C	2.00	87	
2,3,4,7,8-PeCDF	5.8	-----	1.5		2,3,4,6,7,8-HxCDF-13C	2.00	78	
Total PeCDF	5.8	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	73	
					1,2,3,4,7,8-HxCDD-13C	2.00	86	
1,2,3,7,8-PeCDD	ND	-----	3.4		1,2,3,6,7,8-HxCDD-13C	2.00	86	
Total PeCDD	ND	-----	3.4		1,2,3,4,6,7,8-HpCDF-13C	2.00	47	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46	
1,2,3,4,7,8-HxCDF	ND	-----	4.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	50	
1,2,3,6,7,8-HxCDF	ND	-----	5.1		OCDD-13C	4.00	36	P
2,3,4,6,7,8-HxCDF	6.8	-----	5.2					
1,2,3,7,8,9-HxCDF	ND	-----	8.3		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	52.0	-----	5.7		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	7.5		2,3,7,8-TCDD-37Cl4	0.20	72	
1,2,3,6,7,8-HxCDD	15.0	-----	6.2					
1,2,3,7,8,9-HxCDD	ND	-----	6.0					
Total HxCDD	50.0	-----	6.6					
1,2,3,4,6,7,8-HpCDF	35.0	-----	9.2		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	18.0		Equivalence: 36 ng/Kg			
Total HpCDF	110.0	-----	13.0		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	170.0	-----	14.0					
Total HpCDD	310.0	-----	14.0					
OCDF	98.0	-----	24.0					
OCDD	2000.0	-----	22.0					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
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NC = Not Calculated

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX8 BASE		
Lab Sample ID	2081338		
Filename	V00728R		
Injected By	BAL		
Total Amount Extracted	12.8 g	Matrix	SOIL
% Moisture	20.3	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 23:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.35		2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	-----	0.35		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	-----	0.23		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	ND	-----	0.23		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	47
1,2,3,7,8-PeCDF	ND	-----	0.24		1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	-----	0.22		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	0.23		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.56		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	2.8	-----	0.56	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.57		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.37		OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	ND	-----	0.52				
1,2,3,7,8,9-HxCDF	ND	-----	0.48		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.49		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.46		2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	0.81				
1,2,3,7,8,9-HxCDD	ND	-----	0.81				
Total HxCDD	16.0	-----	0.69				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.55		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.78		Equivalence: 0.0070 ng/Kg		
Total HpCDF	ND	-----	0.67		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	-----	1.2	0.83	I			
Total HpCDD	1.3	-----	0.83	J			
OCDF	ND	-----	0.80				
OCDD	7.0	-----	1.60	J			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX8 MIDDLE		
Lab Sample ID	2081346		
Filename	V00728S		
Injected By	BAL		
Total Amount Extracted	12.85 g	Matrix	SOIL
% Moisture	20.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 00:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.31		2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	-----	0.31		2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	ND	-----	0.50		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.50		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	48
1,2,3,7,8-PeCDF	ND	-----	0.42		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	-----	0.34		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	0.38		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	-----	0.43		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	0.43		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.44		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	0.31		OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	ND	-----	0.34				
1,2,3,7,8,9-HxCDF	ND	-----	0.32		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.35		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.36		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.39				
1,2,3,7,8,9-HxCDD	ND	-----	0.28				
Total HxCDD	1.7	-----	0.34	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.38		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.62		Equivalence: 0.019 ng/Kg		
Total HpCDF	ND	-----	0.50		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.0	-----	0.60	BJ			
Total HpCDD	2.1	-----	0.60	J			
OCDF	ND	-----	0.97				
OCDD	9.2	-----	0.72	J			

Results reported on a dry weight basis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX9		
Lab Sample ID	2081353		
Filename	V00728T		
Injected By	BAL		
Total Amount Extracted	13.18 g	Matrix	SOIL
% Moisture	20.3	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 01:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.23		2,3,7,8-TCDF-13C	2.00	70
Total TCDF	0.62	-----	0.23	J	2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.64		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	ND	-----	0.64		1,2,3,7,8-PeCDD-13C	2.00	69
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	0.57		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.56		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.57		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	0.69		1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	6.60	-----	0.69		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	2.70	-----	1.10	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	-----	1.40		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	1.20				
1,2,3,7,8,9-HxCDF	ND	-----	1.50		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4.20	-----	1.30	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.50		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	-----	0.80				
1,2,3,7,8,9-HxCDD	ND	-----	1.60				
Total HxCDD	21.00	-----	1.30				
1,2.3,4,6,7,8-HpCDF	3.60	-----	1.30	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.50		Equivalence: 0.49 ng/Kg		
Total HpCDF	9.90	-----	1.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	9.80	-----	3.10				
Total HpCDD	19.00	-----	3.10				
OCDF	-----	14	5.60	I			
OCDD	81.00	-----	4.60				

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX10		
Lab Sample ID	2081361		
Filename	V00729F		
Injected By	SWH		
Total Amount Extracted	13.99 g	Matrix	SOIL
% Moisture	24.0	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 11:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.47		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.47		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	-----	0.58		2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	ND	-----	0.58		1,2,3,7,8-PeCDD-13C	2.00	71
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	0.53		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.72		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.63		1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.80		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	-----	0.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	61
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.74		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	0.74		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	1.10				
1,2,3,7,8,9-HxCDF	ND	-----	1.10		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.91		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.20		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	4.0	-----	1.10	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.30				
Total HxCDD	46.0	-----	1.20				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.50		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.70		Equivalence: 0.62 ng/Kg		
Total HpCDF	5.5	-----	2.60		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	13.0	-----	1.40				
Total HpCDD	26.0	-----	1.40				
OCDF	7.7	-----	3.30	J			
OCDD	82.0	-----	2.00				

Results reported on a dry weight basis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX12 SURFACE		
Lab Sample ID	2081379		
Filename	V00729G		
Injected By	SWH		
Total Amount Extracted	10.54 g	Matrix	SOIL
% Moisture	1.7	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 12:26

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.82	-----	0.45	J	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	6.00	-----	0.45		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	1.10	-----	0.56		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	1.10	-----	0.56		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	ND	-----	0.89		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.62		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	4.90	-----	0.75		1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	-----	0.89	0.79	I	1,2,3,6,7,8-HxCDD-13C	2.00	99
Total PeCDD	1.20	-----	0.79	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.55		1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	0.43		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	-----	1.30	0.54	I			
1,2,3,7,8,9-HxCDF	ND	-----	1.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	20.00	-----	0.71		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.30	-----	1.10	J	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	21.00	-----	0.67				
1,2,3,7,8,9-HxCDD	8.40	-----	1.10				
Total HxCDD	140.00	-----	0.95				
1,2.3,4,6,7,8-HpCDF	25.00	-----	1.60		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.50		Equivalence: 8.5 ng/Kg		
Total HpCDF	25.00	-----	2.10		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	180.00	-----	1.60				
Total HpCDD	330.00	-----	1.60				
OCDF	74.00	-----	3.00				
OCDD	2000.00	-----	3.10				

Results reported on a dry weight basis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX13 SURFACE		
Lab Sample ID	2081387		
Filename	V00729H		
Injected By	SWH		
Total Amount Extracted	10.6 g	Matrix	SOIL
% Moisture	3.6	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 13:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	3.2	-----	1.0		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	-----	1.5	1.1	I	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	ND	-----	1.1		1,2,3,7,8-PeCDD-13C	2.00	68
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	1.2		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	1.9		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	17.0	-----	1.6		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	1.9		1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	-----	1.9		1,2,3,4,6,7,8-HpCDF-13C	2.00	60
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	2.2		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	2.7		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	3.5				
1,2,3,7,8,9-HxCDF	ND	-----	3.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.7	-----	2.9		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.8		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	3.8				
1,2,3,7,8,9-HxCDD	ND	-----	2.9				
Total HxCDD	13.0	-----	3.2				
1,2,3,4,6,7,8-HpCDF	-----	9.8	5.4	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	6.2		Equivalence: 0.80 ng/Kg		
Total HpCDF	18.0	-----	5.8		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	39.0	-----	6.5				
Total HpCDD	71.0	-----	6.5				
OCDF	27.0	-----	7.1				
OCDD	380.0	-----	13.0				

Results reported on a dry weight basis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX13 BASE		
Lab Sample ID	2081395		
Filename	V00729I		
Injected By	SWH		
Total Amount Extracted	13.36 g	Matrix	SOIL
% Moisture	21.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 14:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.46		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.46		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.59		2,3,4,7,8-PeCDF-13C	2.00	62
Total TCDD	ND	-----	0.59		1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	0.78		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.64		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	1.2	-----	0.71	J	1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	-----	1.00		1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	4.7	-----	1.00	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	-----	0.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	0.58		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	1.20				
1,2,3,7,8,9-HxCDF	ND	-----	1.20		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.6	-----	0.99	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.40		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	3.4	-----	1.20	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.30				
Total HxCDD	33.0	-----	1.30				
1,2,3,4,6,7,8-HpCDF	5.7	-----	1.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.60		Equivalence: 0.75 ng/Kg		
Total HpCDF	22.0	-----	2.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	23.0	-----	2.70				
Total HpCDD	37.0	-----	2.70				
OCDF	14.0	-----	5.60				
OCDD	110.0	-----	3.20				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
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Report No.....00-1033617

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX13 MIDDLE		
Lab Sample ID	2081403		
Filename	V00729J		
Injected By	TM		
Total Amount Extracted	13.2 g	Matrix	SOIL
% Moisture	18.2	Dilution	NA
Dry Weight Extracted	10.8 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 15:55

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.89		2,3,7,8-TCDF-13C	2.00	62	
Total TCDF	ND	-----	0.89		2,3,7,8-TCDD-13C	2.00	62	
					1,2,3,7,8-PeCDF-13C	2.00	52	
2,3,7,8-TCDD	ND	-----	0.96		2,3,4,7,8-PeCDF-13C	2.00	50	
Total TCDD	ND	-----	0.96		1,2,3,7,8-PeCDD-13C	2.00	52	
					1,2,3,4,7,8-HxCDF-13C	2.00	72	
1,2,3,7,8-PeCDF	ND	-----	1.80		1,2,3,6,7,8-HxCDF-13C	2.00	75	
2,3,4,7,8-PeCDF	ND	-----	1.60		2,3,4,6,7,8-HxCDF-13C	2.00	74	
Total PeCDF	1.7	-----	1.70	J	1,2,3,7,8,9-HxCDF-13C	2.00	68	
					1,2,3,4,7,8-HxCDD-13C	2.00	76	
1,2,3,7,8-PeCDD	ND	-----	2.00		1,2,3,6,7,8-HxCDD-13C	2.00	72	
Total PeCDD	ND	-----	2.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	50	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46	
1,2,3,4,7,8-HxCDF	ND	-----	1.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	53	
1,2,3,6,7,8-HxCDF	ND	-----	2.50		OCDD-13C	4.00	39	P
2,3,4,6,7,8-HxCDF	ND	-----	3.00					
1,2,3,7,8,9-HxCDF	ND	-----	4.30		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	2.90		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	3.30		2,3,7,8-TCDD-37Cl4	0.20	74	
1,2,3,6,7,8-HxCDD	7.8	-----	4.10					
1,2,3,7,8,9-HxCDD	ND	-----	3.20					
Total HxCDD	38.0	-----	3.50					
1,2,3,4,6,7,8-HpCDF	ND	-----	5.20		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	7.00		Equivalence: 1.3 ng/Kg			
Total HpCDF	ND	-----	6.10		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	30.0	-----	3.50					
Total HpCDD	30.0	-----	3.50					
OCDF	ND	-----	13.00					
OCDD	210.0	-----	11.00					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
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B = Less than 10 times higher than method blank level
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX14 BASE		
Lab Sample ID	2081429		
Filename	V00729K		
Injected By	TM		
Total Amount Extracted	12.9 g	Matrix	SOIL
% Moisture	20.4	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 17:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.47		2,3,7,8-TCDF-13C	2.00	67
Total TCDF	ND	-----	0.47		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.99		2,3,4,7,8-PeCDF-13C	2.00	57
Total TCDD	ND	-----	0.99		1,2,3,7,8-PeCDD-13C	2.00	67
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	-----	5.2	1.20	E	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	-----	0.97		2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	-----	1.10		1,2,3,7,8,9-HxCDF-13C	2.00	68
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	1.60		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	1.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	49
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	1.50		1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	ND	-----	1.50		OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	-----	1.60				
1,2,3,7,8,9-HxCDF	ND	-----	2.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.2	-----	1.70	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.20		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	9.9	-----	1.60				
1,2,3,7,8,9-HxCDD	4.0	-----	1.90	J			
Total HxCDD	110.0	-----	1.60				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.80		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.80		Equivalence: 1.7 ng/Kg		
Total HpCDF	ND	-----	3.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	22.0	-----	3.90				
Total HpCDD	43.0	-----	3.90				
OCDF	ND	-----	5.50				
OCDD	110.0	-----	7.30				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX14 SURFACE		
Lab Sample ID	2081445		
Filename	V00729L		
Injected By	TM		
Total Amount Extracted	10.36 g	Matrix	SOIL
% Moisture	1.7	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 18:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.75		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	2.1	-----	0.75		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	3.9	-----	1.00		2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	3.9	-----	1.00		1,2,3,7,8-PeCDD-13C	2.00	67
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	-----	3.20		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	2.20		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	3.8	-----	2.70	J	1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	-----	2.80		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	2.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	-----	2.80		1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	-----	3.70		OCDD-13C	4.00	43
2,3,4,6,7,8-HxCDF	ND	-----	3.20				
1,2,3,7,8,9-HxCDF	ND	-----	5.60		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4.0	-----	3.80	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	4.70		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	3.90				
1,2,3,7,8,9-HxCDD	ND	-----	5.00				
Total HxCDD	8.3	-----	4.50				
1,2.3,4,6,7,8-HpCDF	8.5	-----	7.00		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	10.00		Equivalence: 4.9 ng/Kg		
Total HpCDF	8.5	-----	8.60		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	43.0	-----	9.10				
Total HpCDD	78.0	-----	9.10				
OCDF	20.0	-----	12.00				
OCDD	470.0	-----	26.00				

Results reported on a dry weight basis

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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	DUP		
Lab Sample ID	2081452		
Filename	V00729M		
Injected By	TM		
Total Amount Extracted	13.12 g	Matrix	SOIL
% Moisture	22.5	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 19:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.48		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.48		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	-----	0.69		2,3,4,7,8-PeCDF-13C	2.00	53
Total TCDD	ND	-----	0.69		1,2,3,7,8-PeCDD-13C	2.00	59
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	-----	1.6	1.00	E	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.94		2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	-----	0.99		1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	1.60		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	8.1	-----	1.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	52
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	1.60		1,2,3,4,6,7,8-HpCDD-13C	2.00	58
1,2,3,6,7,8-HxCDF	ND	-----	1.40		OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	2.10				
1,2,3,7,8,9-HxCDF	ND	-----	1.80		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.50		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	9.2	-----	2.70				
1,2,3,7,8,9-HxCDD	-----	3.1	3.00	I			
Total HxCDD	78.0	-----	2.80				
1,2.3,4,6,7,8-HpCDF	ND	-----	3.10		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.20		Equivalence: 1.2 ng/Kg		
Total HpCDF	ND	-----	3.70		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	16.0	-----	6.20				
Total HpCDD	16.0	-----	6.20				
OCDF	ND	-----	5.50				
OCDD	78.0	-----	9.80				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX4		
Lab Sample ID	2082724		
Filename	V00728G		
Injected By	MASB		
Total Amount Extracted	12.74 g	Matrix	SOIL
% Moisture	19.6	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 09:49

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.38		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	-----	0.38		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.35		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.35		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	-----	0.55		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.45		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.50		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.59		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.59		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	-----	0.75		1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	-----	0.69		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	-----	0.65				
1,2,3,7,8,9-HxCDF	ND	-----	0.60		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.67		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.97		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.94				
1,2,3,7,8,9-HxCDD	ND	-----	0.76				
Total HxCDD	ND	-----	0.89				
1,2.3,4,6,7,8-HpCDF	ND	-----	0.53		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.30		Equivalence: 0.0037 ng/Kg		
Total HpCDF	ND	-----	0.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.80				
Total HpCDD	ND	-----	1.80				
OCDF	ND	-----	1.50				
OCDD	3.7	-----	2.40	BJ			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

REPORT OF LABORATORY ANALYSIS

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Fax: 612- 607-6444

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX6 BASE		
Lab Sample ID	2082732		
Filename	V00728H		
Injected By	MASB		
Total Amount Extracted	12.85 g	Matrix	SOIL
% Moisture	19.4	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 10:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.79		2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	-----	0.79		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.82		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	ND	-----	0.82		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	1.20		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.92		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	1.5	-----	1.10	J	1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	-----	1.70		1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	-----	1.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	-----	4.8	0.72	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	1.40		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	1.10				
1,2,3,7,8,9-HxCDF	ND	-----	1.40		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.0	-----	1.20	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.40		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	1.50				
1,2,3,7,8,9-HxCDD	ND	-----	1.30				
Total HxCDD	16.0	-----	1.40				
1,2,3,4,6,7,8-HpCDF	-----	3.8	1.70	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.20		Equivalence: 0.51 ng/Kg		
Total HpCDF	7.8	-----	1.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	15.0	-----	2.50				
Total HpCDD	26.0	-----	2.50				
OCDF	14.0	-----	4.90				
OCDD	340.0	-----	4.80				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
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Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX12 MIDDLE		
Lab Sample ID	2082740		
Filename	V00728J		
Injected By	MASB		
Total Amount Extracted	12.62 g	Matrix	SOIL
% Moisture	19.1	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 14:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.27		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	0.27		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.47		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.47		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	0.31		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	-----	0.33		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.32		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	ND	-----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	-----	0.31		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	-----	0.42		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	0.45				
1,2,3,7,8,9-HxCDF	ND	-----	0.56		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.3	-----	0.44	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	ND	-----	1.10				
1,2,3,7,8,9-HxCDD	ND	-----	0.88				
Total HxCDD	5.0	-----	1.00				
1,2,3,4,6,7,8-HpCDF	1.7	-----	0.90	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.00		Equivalence: 2.0 ng/Kg		
Total HpCDF	7.7	-----	1.50		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	17.0	-----	0.68				
Total HpCDD	32.0	-----	0.68				
OCDF	7.5	-----	1.50	J			
OCDD	1800.0	-----	2.40				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
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Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX12 BASE		
Lab Sample ID	2082757		
Filename	V00728N		
Injected By	DGP		
Total Amount Extracted	13.08 g	Matrix	SOIL
% Moisture	21.8	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 18:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.74		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.74		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	1.2	-----	0.73		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	1.2	-----	0.73		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	-----	7.4	0.50	E	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	-----	1.10		2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	-----	0.78		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.76		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	5.4	-----	0.76		1,2,3,4,6,7,8-HpCDF-13C	2.00	61
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	-----	1.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	1.90		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	2.10				
1,2,3,7,8,9-HxCDF	ND	-----	2.50		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	2.10		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.30		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	1.20				
1,2,3,7,8,9-HxCDD	ND	-----	1.20				
Total HxCDD	25.0	-----	1.20				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.40		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.90		Equivalence: 1.4 ng/Kg		
Total HpCDF	6.9	-----	3.10		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	12.0	-----	2.30				
Total HpCDD	22.0	-----	2.30				
OCDF	ND	-----	7.20				
OCDD	120.0	-----	3.50				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX14 MIDDLE		
Lab Sample ID	2082765		
Filename	V00728I		
Injected By	MASB		
Total Amount Extracted	12.57 g	Matrix	SOIL
% Moisture	18.3	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 13:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.49		2,3,7,8-TCDF-13C	2.00	38	P
Total TCDF	ND	-----	0.49		2,3,7,8-TCDD-13C	2.00	40	
					1,2,3,7,8-PeCDF-13C	2.00	44	
2,3,7,8-TCDD	ND	-----	0.72		2,3,4,7,8-PeCDF-13C	2.00	43	
Total TCDD	ND	-----	0.72		1,2,3,7,8-PeCDD-13C	2.00	46	
					1,2,3,4,7,8-HxCDF-13C	2.00	38	P
1,2,3,7,8-PeCDF	ND	-----	0.71		1,2,3,6,7,8-HxCDF-13C	2.00	41	
2,3,4,7,8-PeCDF	ND	-----	0.50		2,3,4,6,7,8-HxCDF-13C	2.00	41	
Total PeCDF	ND	-----	0.61		1,2,3,7,8,9-HxCDF-13C	2.00	41	
					1,2,3,4,7,8-HxCDD-13C	2.00	42	
1,2,3,7,8-PeCDD	ND	-----	0.58		1,2,3,6,7,8-HxCDD-13C	2.00	45	
Total PeCDD	2.0	-----	0.58	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	40	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43	
1,2,3,4,7,8-HxCDF	ND	-----	0.89		1,2,3,4,6,7,8-HpCDD-13C	2.00	48	
1,2,3,6,7,8-HxCDF	ND	-----	0.69		OCDD-13C	4.00	46	
2,3,4,6,7,8-HxCDF	ND	-----	0.64					
1,2,3,7,8,9-HxCDF	ND	-----	0.43		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.66		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	35	
1,2,3,6,7,8-HxCDD	ND	-----	1.00					
1,2,3,7,8,9-HxCDD	ND	-----	0.81					
Total HxCDD	3.9	-----	0.98	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.40		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.50		Equivalence: 0.0050 ng/Kg			
Total HpCDF	ND	-----	0.93		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.30					
Total HpCDD	ND	-----	1.30					
OCDF	ND	-----	1.30					
OCDD	5.0	-----	2.10	BJ				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX7			
Lab Sample ID	2145356			
Filename	V00731E			
Injected By	DGP			
Total Amount Extracted	13.09 g	Matrix	SOIL	
% Moisture	17.8	Dilution	NA	
Dry Weight Extracted	10.8 g	Collected	07/13/2000	
ICAL Date	07/12/2000	Received	07/14/2000	
CCal Filename(s)	V00731C & V00731M	Extracted	07/20/2000	
Method Blank ID	BLANK-072000	Analyzed	07/31/2000	12:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.83		2,3,7,8-TCDF-13C	2.00	62	
Total TCDF	ND	-----	0.83		2,3,7,8-TCDD-13C	2.00	67	N2
					1,2,3,7,8-PeCDF-13C	2.00	82	
2,3,7,8-TCDD	ND	-----	4.40	N2	2,3,4,7,8-PeCDF-13C	2.00	79	
Total TCDD	ND	-----	3.50		1,2,3,7,8-PeCDD-13C	2.00	91	
					1,2,3,4,7,8-HxCDF-13C	2.00	82	
1,2,3,7,8-PeCDF	ND	-----	2.00		1,2,3,6,7,8-HxCDF-13C	2.00	81	
2,3,4,7,8-PeCDF	ND	-----	1.90		2,3,4,6,7,8-HxCDF-13C	2.00	79	
Total PeCDF	ND	-----	1.90		1,2,3,7,8,9-HxCDF-13C	2.00	73	
					1,2,3,4,7,8-HxCDD-13C	2.00	82	
1,2,3,7,8-PeCDD	ND	-----	3.80		1,2,3,6,7,8-HxCDD-13C	2.00	87	
Total PeCDD	ND	-----	3.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	66	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65	
1,2,3,4,7,8-HxCDF	ND	-----	1.80		1,2,3,4,6,7,8-HpCDD-13C	2.00	77	
1,2,3,6,7,8-HxCDF	ND	-----	2.30		OCDD-13C	4.00	61	
2,3,4,6,7,8-HxCDF	ND	-----	2.20					
1,2,3,7,8,9-HxCDF	ND	-----	3.80		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	2.50		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	1.80		2,3,7,8-TCDD-37Cl4	0.20	77	
1,2,3,6,7,8-HxCDD	ND	-----	1.80					
1,2,3,7,8,9-HxCDD	ND	-----	2.50					
Total HxCDD	ND	-----	2.00					
1,2.3,4,6,7,8-HpCDF	ND	-----	4.70		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	7.80		Equivalence: 0.095 ng/Kg			
Total HpCDF	ND	-----	6.20		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	7.00					
Total HpCDD	ND	-----	7.00					
OCDF	ND	-----	7.10					
OCDD	95	-----	8.00					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range of 40-135%
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1034661

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX11 BASE		
Lab Sample ID	2145364		
Filename	V00731F		
Injected By	DGP		
Total Amount Extracted	13.21 g	Matrix	SOIL
% Moisture	23.1	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	07/13/2000
ICAL Date	07/12/2000	Received	07/14/2000
CCal Filename(s)	V00731C & V00731M	Extracted	07/20/2000
Method Blank ID	BLANK-072000	Analyzed	07/31/2000 13:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.95	2,3,7,8-TCDF-13C	2.00	34 IP
Total TCDF	ND	-----	0.95	2,3,7,8-TCDD-13C	2.00	72
				1,2,3,7,8-PeCDF-13C	2.00	94
2,3,7,8-TCDD	ND	-----	1.30	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	1.30	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.91	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	1.20	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	1.00	1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	1.10	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	7.0	-----	1.10	1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.81	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	1.20	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	1.10			
1,2,3,7,8,9-HxCDF	ND	-----	1.10	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.00	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.80	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	1.40			
1,2,3,7,8,9-HxCDD	ND	-----	1.50			
Total HxCDD	ND	-----	1.60			
1,2.3,4,6,7,8-HpCDF	ND	-----	1.40	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.10	Equivalence: 0.025 ng/Kg		
Total HpCDF	ND	-----	1.70	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	-----	2.1	2.10 I			
Total HpCDD	ND	-----	2.10			
OCDF	ND	-----	3.10			
OCDD	25.0	-----	2.00			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1034461

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Tel: 612-607-1700
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX11 SURFACE		
Lab Sample ID	2145372		
Filename	V00731G		
Injected By	DGP		
Total Amount Extracted	11.56 g	Matrix	SOIL
% Moisture	8.7	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	07/13/2000
ICAL Date	07/12/2000	Received	07/14/2000
CCal Filename(s)	V00731C	Extracted	07/20/2000
Method Blank ID	BLANK-072000	Analyzed	07/31/2000 15:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	12.0	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	-----	12.0	2,3,7,8-TCDD-13C	2.00	49
				1,2,3,7,8-PeCDF-13C	2.00	47
2,3,7,8-TCDD	10	-----	8.4	2,3,4,7,8-PeCDF-13C	2.00	44
Total TCDD	10	-----	8.4	1,2,3,7,8-PeCDD-13C	2.00	45
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	17.0	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	19.0	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	18.0	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	16.0	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	16.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	-----	16.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	ND	-----	14.0	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	14.0			
1,2,3,7,8,9-HxCDF	ND	-----	19.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	44	-----	16.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	23.0	2,3,7,8-TCDD-37Cl4	0.20	299
1,2,3,6,7,8-HxCDD	ND	-----	17.0			
1,2,3,7,8,9-HxCDD	ND	-----	22.0			
Total HxCDD	ND	-----	21.0			
1,2.3,4,6,7,8-HpCDF	62	-----	36.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	51.0	Equivalence: 18 ng/Kg		
Total HpCDF	280	-----	44.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	300	-----	25.0			
Total HpCDD	530	-----	25.0			
OCDF	470	-----	68.0			
OCDD	3300	-----	70.0			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....103461

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-061900		
Filename	V00622D	Matrix	SOLID
Total Amount Extracted	10.27 g	Dilution	NA
ICAL Date	NA	Extracted	06/19/2000
CCal Filename(s)	V00622C & V00622K	Analyzed	06/22/2000 11:38
Method Blank ID	BLANK-061900	Injected By	DGP

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	98	2,3,7,8-TCDF-13C	2.00	72
				2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.20	0.18	91	2,3,4,7,8-PeCDF-13C	2.00	76
				1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	60
1,2,3,7,8-PeCDF	1.00	1.00	100	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	1.00	0.96	96	2,3,4,6,7,8-HxCDF-13C	2.00	82
				1,2,3,7,8,9-HxCDF-13C	2.00	79
				1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	1.00	1.01	101	1,2,3,6,7,8-HxCDD-13C	2.00	84
				1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	1.00	0.93	93	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	1.00	1.08	108	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	1.00	0.99	99			
1,2,3,7,8,9-HxCDF	1.00	1.01	101	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.00	0.90	90			
1,2,3,7,8,9-HxCDD	1.00	0.94	94			
1,2.3,4,6,7,8-HpCDF	1.00	0.97	97			
1,2,3,4,7,8,9-HpCDF	1.00	1.00	100			
1,2,3,4,6,7,8-HpCDD	1.00	0.98	98			
OCDF	2.00	1.95	97			
OCDD	2.00	2.02	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033641

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-062100		
Filename	V00717E	Matrix	SOLID
Total Amount Extracted	10.33 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/21/2000
CCal Filename(s)	V00717B & V00717M	Analyzed	07/17/2000 12:51
Method Blank ID	BLANK-062100	Injected By	DGP

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.18	90	2,3,7,8-TCDF-13C	2.00	74
				2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	0.20	0.18	92	2,3,4,7,8-PeCDF-13C	2.00	87
				1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	67
1,2,3,7,8-PeCDF	1.00	0.89	89	1,2,3,6,7,8-HxCDF-13C	2.00	54
2,3,4,7,8-PeCDF	1.00	0.89	89	2,3,4,6,7,8-HxCDF-13C	2.00	73
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	1.00	0.90	90	1,2,3,6,7,8-HxCDD-13C	2.00	77
				1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	1.00	0.85	85	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	1.00	0.98	98	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	1.00	0.89	89			
1,2,3,7,8,9-HxCDF	1.00	0.87	87	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.88	88	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	1.00	0.89	89			
1,2,3,7,8,9-HxCDD	1.00	0.88	88			
1,2.3,4,6,7,8-HpCDF	1.00	0.89	89			
1,2,3,4,7,8,9-HpCDF	1.00	0.88	88			
1,2,3,4,6,7,8-HpCDD	1.00	0.86	86			
OCDF	2.00	1.55	78			
OCDD	2.00	1.76	88			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033617

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-062700		
Filename	V00721M	Matrix	SOLID
Total Amount Extracted	10.09 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/27/2000
CCal Filename(s)	V00721I & V00721U	Analyzed	07/22/2000 04:24
Method Blank ID	BLANK-062700	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	116	2,3,7,8-TCDF-13C	2.00	109
				2,3,7,8-TCDD-13C	2.00	107
				1,2,3,7,8-PeCDF-13C	2.00	120
2,3,7,8-TCDD	0.20	0.23	114	2,3,4,7,8-PeCDF-13C	2.00	126
				1,2,3,7,8-PeCDD-13C	2.00	125
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	1.00	1.17	117	1,2,3,6,7,8-HxCDF-13C	2.00	115
2,3,4,7,8-PeCDF	1.00	1.14	114	2,3,4,6,7,8-HxCDF-13C	2.00	111
				1,2,3,7,8,9-HxCDF-13C	2.00	112
				1,2,3,4,7,8-HxCDD-13C	2.00	111
1,2,3,7,8-PeCDD	1.00	1.15	115	1,2,3,6,7,8-HxCDD-13C	2.00	112
				1,2,3,4,6,7,8-HpCDF-13C	2.00	114
				1,2,3,4,7,8,9-HpCDF-13C	2.00	121
1,2,3,4,7,8-HxCDF	1.00	1.20	120	1,2,3,4,6,7,8-HpCDD-13C	2.00	118
1,2,3,6,7,8-HxCDF	1.00	1.09	109	OCDD-13C	4.00	99
2,3,4,6,7,8-HxCDF	1.00	1.14	114			
1,2,3,7,8,9-HxCDF	1.00	1.13	113	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.12	112	2,3,7,8-TCDD-37Cl4	0.20	111
1,2,3,6,7,8-HxCDD	1.00	1.18	118			
1,2,3,7,8,9-HxCDD	1.00	1.13	113			
1,2,3,4,6,7,8-HpCDF	1.00	1.13	113			
1,2,3,4,7,8,9-HpCDF	1.00	1.10	110			
1,2,3,4,6,7,8-HpCDD	1.00	1.17	117			
OCDF	2.00	2.26	113			
OCDD	2.00	2.26	113			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-062700-DUP		
Filename	V00721N	Matrix	SOLID
Total Amount Extracted	10.06 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/27/2000
CCal Filename(s)	V00721I & V00721U	Analyzed	07/22/2000 05:26
Method Blank ID	V0020D	Injected By	SEM

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.00	113
				2,3,7,8-TCDD-13C	2.00	109
				1,2,3,7,8-PeCDF-13C	2.00	142 P
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	148 P
				1,2,3,7,8-PeCDD-13C	2.00	143 P
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	1.00	1.08	108	1,2,3,6,7,8-HxCDF-13C	2.00	111
2,3,4,7,8-PeCDF	1.00	1.04	104	2,3,4,6,7,8-HxCDF-13C	2.00	109
				1,2,3,7,8,9-HxCDF-13C	2.00	107
				1,2,3,4,7,8-HxCDD-13C	2.00	108
1,2,3,7,8-PeCDD	1.00	1.04	104	1,2,3,6,7,8-HxCDD-13C	2.00	114
				1,2,3,4,6,7,8-HpCDF-13C	2.00	107
				1,2,3,4,7,8,9-HpCDF-13C	2.00	114
1,2,3,4,7,8-HxCDF	1.00	1.09	109	1,2,3,4,6,7,8-HpCDD-13C	2.00	117
1,2,3,6,7,8-HxCDF	1.00	0.98	98	OCDD-13C	4.00	92
2,3,4,6,7,8-HxCDF	1.00	1.04	104			
1,2,3,7,8,9-HxCDF	1.00	1.03	103	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.00	100	2,3,7,8-TCDD-37Cl4	0.20	115
1,2,3,6,7,8-HxCDD	1.00	1.03	103			
1,2,3,7,8,9-HxCDD	1.00	0.99	99			
1,2.3,4,6,7,8-HpCDF	1.00	1.02	102			
1,2,3,4,7,8,9-HpCDF	1.00	0.99	99			
1,2,3,4,6,7,8-HpCDD	1.00	1.00	100			
OCDF	2.00	1.92	96			
OCDD	2.00	2.00	100			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033617

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Method 8290 Spike Sample Results

Client - QAS

Client's Sample ID	EX2-MS		
Lab Sample ID	2081270-MS		
Filename	V00728C	Matrix	SOIL
Total Amount Extracted	10.7 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/21/2000
CCal Filename(s)	V00728A & V00728K	Analyzed	07/28/2000 05:04
Method Blank ID	BLANK-062100	Injected By	MCH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.00	71
				2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	0.20	0.19	94	2,3,4,7,8-PeCDF-13C	2.00	77
				1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	57
1,2,3,7,8-PeCDF	1.00	0.98	98	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	1.00	0.95	95	2,3,4,6,7,8-HxCDF-13C	2.00	74
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	1.00	0.94	94	1,2,3,6,7,8-HxCDD-13C	2.00	81
				1,2,3,4,6,7,8-HpCDF-13C	2.00	76
				1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	1.00	0.89	89	1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	1.00	1.00	100	OCDD-13C	4.00	95
2,3,4,6,7,8-HxCDF	1.00	0.95	95			
1,2,3,7,8,9-HxCDF	1.00	0.95	95	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.00	0.94	94			
1,2,3,7,8,9-HxCDD	1.00	0.94	94			
1,2,3,4,6,7,8-HpCDF	1.00	0.93	93			
1,2,3,4,7,8,9-HpCDF	1.00	0.91	91			
1,2,3,4,6,7,8-HpCDD	1.00	0.92	92			
OCDF	2.00	1.73	87			
OCDD	2.00	1.90	95			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - QAS

Client's Sample ID	EX2-MSD		
Lab Sample ID	2081270-MSD		
Filename	V00728D	Matrix	SOIL
Total Amount Extracted	10.55 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/21/2000
CCal Filename(s)	V00728A & V00728K	Analyzed	07/28/2000 06:09
Method Blank ID	BLANK-062100	Injected By	MCH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	36 P
				2,3,7,8-TCDD-13C	2.00	42
				1,2,3,7,8-PeCDF-13C	2.00	38 IP
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	41
				1,2,3,7,8-PeCDD-13C	2.00	43
				1,2,3,4,7,8-HxCDF-13C	2.00	29 IP
1,2,3,7,8-PeCDF	1.00	1.02	102	1,2,3,6,7,8-HxCDF-13C	2.00	36 IP
2,3,4,7,8-PeCDF	1.00	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.00	40
				1,2,3,7,8,9-HxCDF-13C	2.00	40
				1,2,3,4,7,8-HxCDD-13C	2.00	43
1,2,3,7,8-PeCDD	1.00	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.00	47
				1,2,3,4,6,7,8-HpCDF-13C	2.00	43
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	1.00	0.94	94	1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	1.00	1.06	106	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	1.00	1.00	100			
1,2,3,7,8,9-HxCDF	1.00	1.00	100	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103	2,3,7,8-TCDD-37Cl4	0.20	52
1,2,3,6,7,8-HxCDD	1.00	0.92	92			
1,2,3,7,8,9-HxCDD	1.00	0.91	91			
1,2.3,4,6,7,8-HpCDF	1.00	0.99	99			
1,2,3,4,7,8,9-HpCDF	1.00	0.97	97			
1,2,3,4,6,7,8-HpCDD	1.00	0.98	98			
OCDF	2.00	1.80	90			
OCDD	2.00	2.01	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

MS/MSD RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client..... QAS

MS ID..... EX2-MS
MS Filename..... V00728C
MSD ID..... EX2-MSD
MSD Filename..... V00728D

COMPOUND	MS REC,%	MSD REC,%	RPD,%
2378-TCDF	105	107	1.9
2378-TCDD	94	104	10.1
12378-PeCDF	98	102	4.0
23478-PeCDF	95	98	3.1
12378-PeCDD	94	99	5.2
123478-HxCDF	89	94	5.5
123678-HxCDF	100	106	5.8
234678-HxCDF	95	100	5.1
123789-HxCDF	95	100	5.1
123478-HxCDD	97	103	6.0
123678-HxCDD	94	92	2.2
123789-HxCDD	94	91	3.2
1234678-HpCDF	93	99	6.3
1234789-HpCDF	91	97	6.4
1234678-HpCDD	92	98	6.3
OCDF	87	90	3.4
OCDD	95	101	6.1

REC = Percent Recovered
RPD = The difference between the two values divided by the average.
NA = Not Applicable
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Report No..... 00-1033617

Pace Analytical Services, Inc.
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Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-072000		
Filename	V00801E	Matrix	SOLID
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	07/12/2000	Extracted	07/20/2000
CCal Filename(s)	V00801C	Analyzed	08/01/2000 12:25
Method Blank ID	BLANK-072000	Injected By	DGP

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	110	2,3,7,8-TCDF-13C	1.00	71
				2,3,7,8-TCDD-13C	1.00	79
				1,2,3,7,8-PeCDF-13C	1.00	81
2,3,7,8-TCDD	0.20	0.20	102	2,3,4,7,8-PeCDF-13C	1.00	79
				1,2,3,7,8-PeCDD-13C	1.00	72
				1,2,3,4,7,8-HxCDF-13C	1.00	P57
1,2,3,7,8-PeCDF	1.00	1.18	118	1,2,3,6,7,8-HxCDF-13C	1.00	82
2,3,4,7,8-PeCDF	1.00	1.14	114	2,3,4,6,7,8-HxCDF-13C	1.00	82
				1,2,3,7,8,9-HxCDF-13C	1.00	83
				1,2,3,4,7,8-HxCDD-13C	1.00	90
1,2,3,7,8-PeCDD	1.00	1.15	115	1,2,3,6,7,8-HxCDD-13C	1.00	93
				1,2,3,4,6,7,8-HpCDF-13C	1.00	90
				1,2,3,4,7,8,9-HpCDF-13C	1.00	90
1,2,3,4,7,8-HxCDF	1.00	1.22	122	1,2,3,4,6,7,8-HpCDD-13C	1.00	100
1,2,3,6,7,8-HxCDF	1.00	1.20	120	OCDD-13C	2.00	100
2,3,4,6,7,8-HxCDF	1.00	1.18	118			
1,2,3,7,8,9-HxCDF	1.00	1.20	120	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.13	113	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	1.00	1.17	117			
1,2,3,7,8,9-HxCDD	1.00	1.17	117			
1,2.3,4,6,7,8-HpCDF	1.00	1.17	117			
1,2,3,4,7,8,9-HpCDF	1.00	1.17	117			
1,2,3,4,6,7,8-HpCDD	1.00	1.16	116			
OCDF	2.00	2.17	108			
OCDD	2.00	2.35	118			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1034661

REPORT OF LABORATORY ANALYSIS

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RBC Tables

Sources: I = IRIS H = HEAST A = HEAST Alternate W = Withdrawn from IRIS or HEAST
E = EPA-NCEA provisional value O = other

Basis: C = Carcinogenic effects N = Noncarcinogenic effects 1 = RBC at HI of 0.1 < HBC-c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	Region III SSLs: Soil, for groundwater migration DAF 1 mg/kg	DAF 20 mg/kg
ACETALDEHYDE	75070			2.57E-003 I	7.7E-003 I	y	1.6E+000 C	8.1E-001 C				3.8E-004	7.7E-003 C
ACETOCHLOR	34256821	2E-002 I					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N		
ACETONE	67641	1.00E-001 I				y	6.1E+002 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	1.2E-001	2.5E+000 N
ACETONITRILE	75058			1.7E-002 I		y	1.2E+002 N	6.2E+001 N				2.9E-002	5.8E-001 N
ACETOPHENONE	98862	1.00E-001 I		5.70E-006 W		y	4.2E-002 N	2.1E-002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	1.1E-005	2.2E-004 N
ACROLEIN	107028	2.00E-002 H		5.70E-006 I		y	4.2E-002 N	2.1E-002 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	1.0E-005	2.0E-004 N
ACRYLAMIDE	79061	2.00E-004 I	4.50E+000 I		4.50E+000 I		1.5E-002 C	1.4E-003 C	7.0E-004 C	1.3E+000 C	1.4E-001 C	3.7E-006	7.4E-005 C
ACRYLONITRILE	107131	1.00E-003 H	5.40E-001 I	5.70E-004 I	2.40E-001 I	y	3.7E-002 C	2.6E-002 C	5.8E-003 C	1.1E+001 C	1.2E+000 C	7.4E-006	1.5E-004 C
ALACHLOR	15972608	1.00E-002 I	8.00E-002 H				8.4E-001 C	7.8E-002 C	3.9E-002 C	7.2E+001 C	8.0E+000 C	3.5E-004	7.0E-003 C
ALAR	1596845	1.50E-001 I					5.5E+003 N	5.5E+002 N	2.0E+002 N	3.1E+005 N	1.2E+004 N		
ALDICARB	116063	1.00E-003 I					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N	1.0E-002	2.1E-001 N
ALDICARB SULFONE	1646884	1.00E-003 I					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N	7.5E-003	1.5E-001 N
ALDRIN	309002	3.00E-005 I	1.70E+001 I		1.70E+001 I		3.9E-003 C	3.7E-004 C	1.9E-004 C	3.4E-001 C	3.8E-002 C	3.8E-004	7.7E-003 C
ALUMINUM	7429905	1.00E+000 E		1.00E-003 E			3.7E+004 N	3.7E+000 N	1.4E+003 N	2.0E+006 N	7.8E+004 N		
AMINODINITROTOLUENES		6.00E-005 E					2.2E+000 N	2.2E-001 N	8.1E-002 N	1.2E+002 N	4.7E+000 N		
4-AMINOPYRIDINE	504245	2.00E-005 H					7.3E-001 N	7.3E-002 N	2.7E-002 N	4.1E+001 N	1.6E+000 N		
AMMONIA	7664417			2.86E-002 I		y	2.1E+002 N	1.0E+002 N					
ANILINE	62533	7.00E-003 E	5.70E-003 I	2.90E-004 I			1.2E+001 C	1.1E+000 N	5.5E-001 C	1.0E+003 C	1.1E+002 C	6.8E-003	1.4E-001 C
ANTIMONY	7440360	4.00E-004 I					1.5E+001 N	1.5E+000 N	5.4E-001 N	8.2E+002 N	3.1E+001 N	6.6E-001	1.3E+001 N
ANTIMONY PENTOXIDE	1314609	5.00E-004 H					1.8E+001 N	1.8E+000 N	6.8E-001 N	1.0E+003 N	3.9E+001 N		
ANTIMONY TETROXIDE	1332816	4.00E-004 H					1.5E+001 N	1.5E+000 N	5.4E-001 N	8.2E+002 N	3.1E+001 N		
ANTIMONY TRIOXIDE	1309644	4.00E-004 H		5.70E-005 I			1.5E+001 N	2.1E-001 N	5.4E-001 N	8.2E+002 N	3.1E+001 N		
ARSENIC	7440382	3.00E-004 I	1.50E+000 I		1.51E+001 I		4.5E-002 C	4.1E-004 C	2.1E-003 C	3.8E+000 C	4.3E-001 C	1.3E-003	2.6E-002 C
ARSINE	7784421			1.40E-005 I		y	1.0E-001 N	5.1E-002 N					
ASSURE	76578148	9.00E-003 I					3.3E+002 N	3.3E+001 N	1.2E+001 N	1.8E+004 N	7.0E+002 N		
ATRAZINE	1912249	3.50E-002 I	2.20E-001 H				3.0E-001 C	2.8E-002 C	1.4E-002 C	2.6E+001 C	2.9E+000 C	4.4E-004	8.8E-003 C
AZOBENZENE	103333		1.10E-001 I		1.10E-001 I		6.1E-001 C	5.7E-002 C	2.9E-002 C	5.2E+001 C	5.8E+000 C	1.8E-003	3.5E-002 C
BARIUM	7440393	7.00E-002 I		1.40E-004 A			2.6E+003 N	5.1E-001 N	9.5E+001 N	1.4E+005 N	5.5E+003 N	1.1E+002	2.1E+003 N
BAYGON	114261	4.00E-003 I					1.5E+002 N	1.5E+001 N	5.4E+000 N	8.2E+003 N	3.1E+002 N		
BAYTHROID	68359375	2.50E-002 I					9.1E+002 N	9.1E+001 N	3.4E+001 N	5.1E+004 N	2.0E+003 N		
BENTAZON	25057890	3.00E-002 I					1.1E+003 N	1.1E+002 N	4.1E+001 N	6.1E+004 N	2.3E+003 N		
BENZALDEHYDE	100527	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N		
BENZENE	71432	3.00E-003 E	5.5E-002 I	1.70E-003 E	2.90E-002 I	y	3.2E-001 C	2.2E-001 C	5.7E-002 C	1.0E+002 C	1.2E+001 C	9.0E-005	1.8E-003 C
BENZENETHIOL	108985	1.00E-005 H				y	6.1E-002 N	3.7E-002 N	1.4E-002 N	2.0E+001 N	7.8E-001 N		
BENZIDINE	92875	3.00E-003 I	2.30E+002 I		2.30E+002 I		2.9E-004 C	2.7E-005 C	1.4E-005 C	2.5E-002 C	2.8E-003 C		
BENZOIC ACID	65850	4.00E+000 I					1.5E+005 N	1.5E+004 N	5.4E+003 N	8.2E+006 N	3.1E+005 N		
BENZYL ALCOHOL	100516	3.00E-001 H					1.1E+004 N	1.1E+003 N	4.1E+002 N	6.1E+005 N	2.3E+004 N	4.4E+000	8.8E+001 N
BENZYL CHLORIDE	100447		0.17 I			y	6.2E-002 C	3.7E-002 C	1.9E-002 C	3.4E+001 C	3.8E+000 C	1.9E-005	3.7E-004 C
BERYLLIUM	7440417	2.00E-003 I		5.7E-006 I	8.40E+000 I		7.3E+001 N	7.5E-004 C	2.7E+000 N	4.1E+003 N	1.6E+002 N	5.8E+001	1.2E+003 N
BIPHENYL	92524	5.00E-002 I				y	3.0E+002 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N	4.8E+000	9.6E+001 N
BIS(2-CHLOROETHYL)ETHER	111444		1.10E+000 I		1.10E+000 I	y	9.6E-003 C	5.7E-003 C	2.9E-003 C	5.2E+000 C	5.8E-001 C	2.2E-006	4.4E-005 C
BIS(2-CHLOROISOPROPYL)ETHER	108601	4.00E-002 I	7.00E-002 H		3.50E-002 H	y	2.6E-001 C	1.8E-001 C	4.5E-002 C	8.2E+001 C	9.1E+000 C	8.4E-005	1.7E-003 C
BIS(CHLOROMETHYL)ETHER	542881		2.20E+002 I		2.20E+002 I	y	4.8E-005 C	2.8E-005 C	1.4E-005 C	2.6E-002 C	2.9E-003 C	9.7E-009	1.9E-007 C
BIS(2-ETHYLHEXYL)PHTHALATE	117817	2.00E-002 I	1.40E-002 I		1.40E-002 E		4.8E+000 C	4.5E-001 C	2.3E-001 C	4.1E+002 C	4.6E+001 C	1.4E+002	2.9E+003 C
BORON	7440428	9.00E-002 I		5.70E-003 H			3.3E+003 N	2.1E+001 N	1.2E+002 N	1.8E+005 N	7.0E+003 N		

Sources: I = IRIS, H = HEAST, A = HEAST Alternate, W = Withdrawn from IRIS or HEAST
E = EPA NCEA provisional value, U = other

Basis: C = Carcinogenic effects, N = Non-carcinogenic effects, 1 = RBC at HI of 0.1, * = RBC-c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Soil Residential mg/kg	Region III SSLs, Soil, for groundwater migration: DAF 1 mg/kg	DAF 20 mg/kg
BROMODICHLOROMETHANE	75274	2.00E-002 I	6.20E-002 I			y	1.7E-001 C	1.0E-001 C	5.1E-002 C	9.2E+001 C	1.0E+001 C	5.4E-005	1.1E-003 C
BROMOETHENE	593602			8.6E-004 I	1.10E-001 H	y	1.1E-001 C	5.7E-002 C				5.4E-005	1.1E-003 C
**BROMOFORM	75252	2.00E-002 I	7.90E-003 I		3.90E-003 I		8.5E+000 C	1.6E+000 C	4.0E-001 C	7.2E+002 C	8.1E+001 C	3.3E-003	6.7E-002 C
BROMOMETHANE	74839	1.40E-003 I		1.40E-003 I		y	8.5E+000 N	5.1E+000 N	1.9E+000 N	2.9E+003 N	1.1E+002 N	2.1E-003	4.1E-002 N
BROMOPHOS	2104963	5.00E-003 H					1.8E+002 N	1.8E+001 N	6.8E+000 N	1.0E+004 N	3.9E+002 N		
1,3-BUTADIENE	106990				1.80E+000 H	y	7.0E-003 C	3.5E-003 C				3.9E-006	7.8E-005 C
1-BUTANOL	71363	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	7.8E-001	1.6E+001 N
BUTYLBENZYLPHTHALATE	85687	2.00E-001 I					7.3E+003 N	7.3E+002 N	2.7E+002 N	4.1E+005 N	1.6E+004 N	8.4E+002	1.7E+004 N
BUTYLATE	2008415	5.00E-002 I					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N		
N-BUTYLBENZENE	104518	4.00E-002 E				y	2.4E+002 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
SEC-BUTYLBENZENE	135988	4.00E-002 E				y	2.4E+002 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
TERT-BUTYLBENZENE	98066	4.00E-002 E				y	2.4E+002 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
CADMIUM-WATER	7440439	5.00E-004 I		5.7E-005 E	6.30E+000 I		1.8E+001 N	9.9E-004 C	6.8E-001 N	1.0E+003 N	3.9E+001 N	1.4E+000	2.7E+001 N
CADMIUM-FOOD	7440439	1.00E-003 I		5.7E-005 E	6.30E+000 I		3.7E+001 N	9.9E-004 C	1.4E+000 N	2.0E+003 N	7.8E+001 N	2.7E+000	5.5E+001 N
CAPROLACTAM	105602	5.00E-001 I					1.8E+004 N	1.8E+003 N	6.8E+002 N	1.0E+006 N	3.9E+004 N		
CARBARYL	63252	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	1.5E+000	3.0E+001 N
CARBON DISULFIDE	75150	1.00E-001 I		2.00E-001 I		y	1.0E+003 N	7.3E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	9.5E-001	1.9E+001 N
CARBON TETRACHLORIDE	56235	7.00E-004 I	1.30E-001 I	5.71E-004 E	5.30E-002 I	y	1.6E-001 C	1.2E-001 C	2.4E-002 C	4.4E+001 C	4.9E+000 C	1.1E-004	2.1E-003 C
CARBOSULFAN	55285148	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		
CHLORAL HYDRATE	302170	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N		
CHLORANIL	118752		4.00E-001 H				1.7E-001 C	1.6E-002 C	7.9E-003 C	1.4E+001 C	1.6E+000 C		
CHLORDANE	57749	5.00E-004 I	3.5E-001 I	2.00E-004 I	3.5E-001 I		1.9E-001 C	1.8E-002 C	9.0E-003 C	1.6E+001 C	1.8E+000 C	4.6E-002	9.2E-001 C
CHLORINE	7782505	1.00E-001 I		5.7E-005 E		y	4.2E-001 N	2.1E-001 N	1.4E+002 N	2.0E+005 N	7.8E+003 N		
CHLORINE DIOXIDE	10049044			5.70E-005 I		y	4.2E-001 N	2.1E-001 N					
CHLOROACETIC ACID	79118	2.00E-003 H					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N		
4-CHLOROANILINE	106478	4.00E-003 I					1.5E+002 N	1.5E+001 N	5.4E+000 N	8.2E+003 N	3.1E+002 N	4.8E-002	9.7E-001 N
CHLOROBENZENE	108907	2.00E-002 I		1.7E-002 E		y	1.1E+002 N	6.2E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	4.0E-002	8.0E-001 N
CHLOROBENZILATE	510156	2.00E-002 I	2.70E-001 H		2.70E-001 H		2.5E-001 C	2.3E-002 C	1.2E-002 C	2.1E+001 C	2.4E+000 C	1.3E-003	2.7E-002 C
P-CHLOROBENZOIC ACID	74113	2.00E-001 H					7.3E+003 N	7.3E+002 N	2.7E+002 N	4.1E+005 N	1.6E+004 N		
2-CHLORO-1,3-BUTADIENE	126998	2.00E-002 A		2.00E-003 H		y	1.4E+001 N	7.3E+000 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	6.0E-003	1.2E-001 N
1-CHLOROBUTANE	109693	4.00E-001 H				y	2.4E+003 N	1.5E+003 N	5.4E+002 N	8.2E+005 N	3.1E+004 N	1.0E+000	2.0E+001 N
1-CHLORO-1,1-DIFLUOROETHANE	75683			1.40E+001 I		y *	1.0E+005 N	5.1E+004 N				7.0E+001	1.4E+003 N
CHLORODIFLUOROMETHANE	75456			1.40E+001 I		y	1.0E+005 N	5.1E+004 N				7.0E+001	1.4E+003 N
CHLOROETHANE	75003	4.00E-001 E	2.90E-003 E	2.90E+000 I		y	3.6E+000 C	2.2E+000 C	1.1E+000 C	2.0E+003 C	2.2E+002 C	9.6E-004	1.9E-002 C
CHLOROFORM	67663	1.00E-002 I	6.10E-003 I	8.6E-005 E	8.10E-002 I	y	1.5E-001 C *	7.7E-002 C *	5.2E-001 C	9.4E+002 C	1.0E+002 C *	4.5E-005	8.9E-004 C
CHLOROMETHANE	74873		1.30E-002 H	8.6E-002 E	3.5E-003 E	y	2.1E+000 C	1.8E+000 C	2.4E-001 C	4.4E+002 C	4.9E+001 C	5.2E-004	1.0E-002 C
4-CHLORO-2-METHYLANILINE	95692		5.80E-001 H				1.2E-001 C	1.1E-002 C	5.4E-003 C	9.9E+000 C	1.1E+000 C		
BETA-CHLORONAPHTHALENE	91587	8.00E-002 I				y	4.9E+002 N	2.9E+002 N	1.1E+002 N	1.6E+005 N	6.3E+003 N	1.6E+000	3.2E+001 N
O-CHLORONITROBENZENE	88733		2.50E-002 H			y	4.2E-001 C	2.5E-001 C	1.3E-001 C	2.3E+002 C	2.6E+001 C		
P-CHLORONITROBENZENE	100005		1.80E-002 H			y	5.9E-001 C	3.5E-001 C	1.8E-001 C	3.2E+002 C	3.5E+001 C		
2-CHLOROPHENOL	95578	5.00E-003 I				y	3.0E+001 N	1.8E+001 N	6.8E+000 N	1.0E+004 N	3.9E+002 N		
2-CHLOROPROPANE	75296			2.90E-002 H		y	2.1E+002 N	1.1E+002 N				6.6E-002	1.3E+000 N
O-CHLOROTOLUENE	95498	2.00E-002 I				y	1.2E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	6.5E-002	1.3E+000 N
CHLORPYRIFOS	2921882	3.00E-003 I					1.1E+002 N	1.1E+001 N	4.1E+000 N	6.1E+003 N	2.3E+002 N	3.2E+000	6.3E+001 N
CHLORPYRIFOS-METHYL	5598130	1.00E-002 H					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		

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Basis: C = Carcinogenic effects N = Noncarcinogenic effects 1 = RBC at HI of 0.1 4 = RBC-c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	Region III SSLs, Soil, for groundwater migration: DAF 1 mg/kg	DAF 20 mg/kg
CHROMIUM III	16065831	1.50E+000 I					5.5E+004 N	5.5E+003 N	2.0E+003 N	3.1E+006 N	1.2E+005 N	9.9E+007	2.0E+009 N
CHROMIUM VI	18540299	3.00E-003 I		3.00E-005 I	4.10E+001 H		1.1E+002 N	1.5E-004 C	4.1E+000 N	6.1E+003 N	2.3E+002 N	2.1E+000	4.2E+001 N
COBALT	7440484	6.00E-002 E					2.2E+003 N	2.2E+002 N	8.1E+001 N	1.2E+005 N	4.7E+003 N		
COKE OVEN EMISSIONS (COAL TAR)	8007452				2.2 I			2.8E-003 C					
COPPER	7440508	4.00E-002 H					1.5E+003 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N	5.3E+002	1.1E+004 N
CROTONALDEHYDE	123739		1.90E+000 H			y	5.6E-003 C	3.3E-003 C	1.7E-003 C	3.0E+000 C	3.4E-001 C	1.5E-005	3.1E-004 C
CUMENE	98828	1.00E-001 I		1.10E-001 I		y	6.6E+002 N	4.0E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	3.2E+000	6.4E+001 N
CYANIDE (FREE)	57125	2.00E-002 I					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	7.4E+000	1.5E+002 N
CALCIUM CYANIDE	592018	4E-002 I					1.5E+003 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
COPPER CYANIDE	544923	5.00E-003 I					1.8E+002 N	1.8E+001 N	6.8E+000 N	1.0E+004 N	3.9E+002 N		
CYANAZINE	21725464	2.00E-003 H	8.40E-001 H				8.0E-002 C	7.5E-003 C	3.8E-003 C	6.8E+000 C	7.6E-001 C	2.6E-005	5.3E-004 C
CYANOGEN	460195	4.00E-002 I				y	2.4E+002 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
CYANOGEN BROMIDE	506683	9.00E-002 I					3.3E+003 N	3.3E+002 N	1.2E+002 N	1.8E+005 N	7.0E+003 N		
CYANOGEN CHLORIDE	506774	5.00E-002 I					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N		
HYDROGEN CYANIDE	74908	2.00E-002 I		8.60E-004 I		y	6.2E+000 N	3.1E+000 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	1.1E-001	2.2E+000 N
POTASSIUM CYANIDE	151508	5.00E-002 I					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N		
POTASSIUM SILVER CYANIDE	506616	2.00E-001 I					7.3E+003 N	7.3E+002 N	2.7E+002 N	4.1E+005 N	1.6E+004 N		
SILVER CYANIDE	506649	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	3.1E+001	6.2E+002 N
SODIUM CYANIDE	143339	4.00E-002 I					1.5E+003 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
THIOCYANATE		5.00E-002 E					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N		
ZINC CYANIDE	557211	5.00E-002 I					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N	1.1E+002	2.3E+003 N
CYCLOHEXANONE	108941	5.00E+000 I					1.8E+005 N	1.8E+004 N	6.8E+003 N	1.0E+007 N	3.9E+005 N	6.1E+001	1.2E+003 N
CYHALOTHRIN/KARATE	68085858	5.00E-003 I					1.8E+002 N	1.8E+001 N	6.8E+000 N	1.0E+004 N	3.9E+002 N		
CYPERMETHRIN	52315078	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		
DACTHAL	1861321	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		
DALAPON	75990	3.00E-002 I					1.1E+003 N	1.1E+002 N	4.1E+001 N	6.1E+004 N	2.3E+003 N	3.5E-001	7.1E+000 N
DDD	72548		2.40E-001 I				2.8E-001 C	2.6E-002 C	1.3E-002 C	2.4E+001 C	2.7E+000 C	5.6E-001	1.1E+001 C
DDE	72559		3.40E-001 I				2.0E-001 C	1.8E-002 C	9.3E-003 C	1.7E+001 C	1.9E+000 C	1.8E+000	3.5E+001 C
DDT	50293	5.00E-004 I	3.40E-001 I		3.40E-001 I		2.0E-001 C	1.8E-002 C	9.3E-003 C	1.7E+001 C	1.9E+000 C	5.8E-002	1.2E+000 C
DIAZINON	333415	9.00E-004 H					3.3E+001 N	3.3E+000 N	1.2E+000 N	1.8E+003 N	7.0E+001 N	2.1E-002	4.3E-001 N
DIBENZOFURAN	132649	4.00E-003 E				y	2.4E+001 N	1.5E+001 N	5.4E+000 N	8.2E+003 N	3.1E+002 N	3.8E-001	7.7E+000 N
1,4-DIBROMOBENZENE	106376	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		
DIBROMOCHLOROMETHANE	124481	2.00E-002 I	8.40E-002 I			y	1.3E-001 C	7.5E-002 C	3.8E-002 C	6.8E+001 C	7.6E+000 C	4.1E-005	8.3E-004 C
1,2-DIBROMO-3-CHLOROPROPANE	96128		1.40E+000 H	5.70E-005 I	2.40E-003 H	y	4.7E-002 C	2.1E-001 N	2.3E-003 C	4.1E+000 C	4.6E-001 C	4.4E-005	8.7E-004 C
1,2-DIBROMOETHANE	106934		8.50E+001 I	5.70E-005 H	7.60E-001 I	y	7.5E-004 C	8.2E-003 C	3.7E-005 C	6.7E-002 C	7.5E-003 C	4.3E-007	8.5E-006 C
DIBUTYLPHTHALATE	84742	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	2.5E+002	5.0E+003 N
DICAMBA	1918009	3.00E-002 I					1.1E+003 N	1.1E+002 N	4.1E+001 N	6.1E+004 N	2.3E+003 N	2.2E-001	4.5E+000 N
1,2-DICHLOROBENZENE	95501	9.00E-002 I				y	5.5E+002 N	3.3E+002 N	1.2E+002 N	1.8E+005 N	7.0E+003 N	4.6E-001	9.3E+000 N
1,3-DICHLOROBENZENE	541731	9.00E-004 E				y	5.5E+000 N	3.3E+000 N	1.2E+000 N	1.8E+003 N	7.0E+001 N	4.4E-003	8.7E-002 N
1,4-DICHLOROBENZENE	106467	3.00E-002 E	2.40E-002 H	2.29E-001 I	2.2E-002 E	y	4.7E-001 C	2.8E-001 C	1.3E-001 C	2.4E+002 C	2.7E+001 C	3.6E-004	7.1E-003 C
3,3'-DICHLOROBENZIDINE	91941		4.50E-001 I				1.5E-001 C	1.4E-002 C	7.0E-003 C	1.3E+001 C	1.4E+000 C	2.5E-004	4.9E-003 C
1,4-DICHLORO-2-BUTENE	764410				9.30E+000 H	y	1.3E-003 C	6.7E-004 C				4.0E-007	8.0E-006 C
DICHLORODIFLUOROMETHANE	75718	2.00E-001 I		5.00E-002 A		y	3.5E+002 N	1.8E+002 N	2.7E+002 N	4.1E+005 N	1.6E+004 N	5.5E-001	1.1E+001 N
1,1-DICHLOROETHANE	75343	1.00E-001 H		1.40E-001 A		y	8.0E+002 N	5.1E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	2.3E-001	4.5E+000 N
1,2-DICHLOROETHANE	107062	3.00E-002 E	9.10E-002 I	1.40E-003 E	9.10E-002 I	y	1.2E-001 C	6.9E-002 C	3.5E-002 C	6.3E+001 C	7.0E+000 C	5.2E-005	1.0E-003 C

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E = EPA NCEA provisional value; O = other

Basis: C = Carcinogenic effects; N = Noncarcinogenic effects; I = RBC at HI of 0.1; * = RBC-c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Soil Residential mg/kg	Region III SSLs, Soil, for groundwater migration: DAF 1 mg/kg	DAF 20 mg/kg
1,1-DICHLOROETHENE	75354	9.00E-003 I	6.00E-001 I		1.75E-001 I	y	4.4E-002 C	3.6E-002 C	5.3E-003 C	9.5E+000 C	1.1E+000 C	1.8E-005	3.6E-004 C
CIS-1,2-DICHLOROETHENE	156592	1.00E-002 H				y	6.1E+001 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N	1.7E-002	3.5E-001 N
TRANS-1,2-DICHLOROETHENE	156605	2.00E-002 I				y	1.2E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	4.1E-002	8.2E-001 N
TOTAL 1,2-DICHLOROETHENE	540590	9.00E-003 H				y	5.5E+001 N	3.3E+001 N	1.2E+001 N	1.8E+004 N	7.0E+002 N	1.9E-002	3.7E-001 N
2,4-DICHLOROPHENOL	120832	3.00E-003 I					1.1E+002 N	1.1E+001 N	4.1E+000 N	6.1E+003 N	2.3E+002 N	6.0E-002	1.2E+000 N
2,4-D	94757	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N	4.5E-001	9.0E+000 N
4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID	94826	8E-003 I					2.9E+002 N	2.9E+001 N	1.1E+001 N	1.6E+004 N	6.3E+002 N		
1,2-DICHLOROPROPANE	78875		6.80E-002 H	1.14E-003 I		y	1.6E-001 C	9.2E-002 C	4.6E-002 C	8.4E+001 C	9.4E+000 C	1.0E-004	2.1E-003 C
1,3-DICHLOROPROPANOL	616239	3.00E-003 I					1.1E+002 N	1.1E+001 N	4.1E+000 N	6.1E+003 N	2.3E+002 N		
**1,3-DICHLOROPROPENE	542756	3.00E-002 I	1.00E-001 I	5.71E-003 I	1.00E-002 I	y	4.4E-001 C	6.3E-001 C	3.2E-002 C	5.7E+001 C	6.4E+000 C	1.6E-004	3.1E-003 C
DICHLORVOS	62737	5E-004 I	0.29 I	1.43E-004 I			2.3E-001 C	2.2E-002 C	1.1E-002 C	2.0E+001 C	2.2E+000 C	5.5E-005	1.1E-003 C
DICOFOL	115322		4.4E-001 W				1.5E-001 C	1.4E-002 C	7.2E-003 C	1.3E+001 C	1.5E+000 C	9.3E-004	1.9E-002 C
DICYCLOPENTADIENE	77736	3E-002 H		6.00E-005 A		y	4.4E-001 N	2.2E-001 N	4.1E+001 N	6.1E+004 N	2.3E+003 N		
DIELDRIN	60571	5.00E-005 I	1.60E+001 I		1.60E+001 I		4.2E-003 C	3.9E-004 C	2.0E-004 C	3.6E-001 C	4.0E-002 C	1.1E-004	2.2E-003 C
DIESEL EMISSIONS				1.40E-003 I				5.1E+000 N					
DIETHYLPHTHALATE	84662	8.00E-001 I					2.9E+004 N	2.9E+003 N	1.1E+003 N	1.6E+006 N	6.3E+004 N	2.3E+001	4.5E+002 N
DIETHYLENE GLYCOL, MONOBUTYL ETHER	112345			5.70E-003 H				2.1E+001 N					
DIETHYLENE GLYCOL, MONOETHYL ETHER	111900	2.00E+000 H					7.3E+004 N	7.3E+003 N	2.7E+003 N	4.1E+006 N	1.6E+005 N		
DI(2-ETHYLHEXYL)ADIPATE	103231	6.00E-001 I	1.20E-003 I				5.6E+001 C	5.2E+000 C	2.6E+000 C	4.8E+003 C	5.3E+002 C		
DIETHYLSTILBESTROL	56531		4.70E+003 H				1.4E-005 C	1.3E-006 C	6.7E-007 C	1.2E-003 C	1.4E-004 C		
DIFENZOQUAT (AVENGE)	43222486	8.00E-002 I					2.9E+003 N	2.9E+002 N	1.1E+002 N	1.6E+005 N	6.3E+003 N		
1,1-DIFLUOROETHANE	75376			1.10E+001 I		y	8.0E+004 N	4.0E+004 N					
DIISOPROPYL METHYLPHOSPHONATE (DIMP)	1445756	8.00E-002 I					2.9E+003 N	2.9E+002 N	1.1E+002 N	1.6E+005 N	6.3E+003 N		
3,3'-DIMETHOXYBENZIDINE	119904		1.40E-002 H				4.8E+000 C	4.5E-001 C	2.3E-001 C	4.1E+002 C	4.6E+001 C		
DIMETHYLAMINE	124403			5.70E-006 W		y	4.2E-002 N	2.1E-002 N				8.5E-006	1.7E-004 N
2,4-DIMETHYLANILINE HYDROCHLORIDE	21436964		5.80E-001 H				1.2E-001 C	1.1E-002 C	5.4E-003 C	9.9E+000 C	1.1E+000 C		
2,4-DIMETHYLANILINE	95681		7.50E-001 H				8.9E-002 C	8.3E-003 C	4.2E-003 C	7.6E+000 C	8.5E-001 C		
N,N-DIMETHYLANILINE	121697	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N		
3,3'-DIMETHYLBENZIDINE	119937		9.20E+000 H				7.3E-003 C	6.8E-004 C	3.4E-004 C	6.2E-001 C	6.9E-002 C		
1,1-DIMETHYLHYDRAZINE	57147		2.60E+000 W		3.50E+000 W		2.6E-002 C	1.8E-003 C	1.2E-003 C	2.2E+000 C	2.5E-001 C		
1,2-DIMETHYLHYDRAZINE	540738		3.70E+001 W		3.70E+001 W		1.8E-003 C	1.7E-004 C	8.5E-005 C	1.5E-001 C	1.7E-002 C		
2,4-DIMETHYLPHENOL	105679	2.00E-002 I					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	3.4E-001	6.7E+000 N
2,6-DIMETHYLPHENOL	576261	6.00E-004 I					2.2E+001 N	2.2E+000 N	8.1E-001 N	1.2E+003 N	4.7E+001 N		
3,4-DIMETHYLPHENOL	95658	1.00E-003 I					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N		
DIMETHYLPHTHALATE	131113	1.00E+001 W					3.7E+005 N	3.7E+004 N	1.4E+004 N	2.0E+007 N	7.8E+005 N		
1,2-DINITROBENZENE	528290	4.00E-004 H					1.5E+001 N	1.5E+000 N	5.4E-001 N	8.2E+002 N	3.1E+001 N		
1,3-DINITROBENZENE	99650	1.00E-004 I					3.7E+000 N	3.7E-001 N	1.4E-001 N	2.0E+002 N	7.8E+000 N	1.8E-003	3.7E-002 N
1,4-DINITROBENZENE	100254	4.00E-004 H					1.5E+001 N	1.5E+000 N	5.4E-001 N	8.2E+002 N	3.1E+001 N		
4,6-DINITRO-O-CYCLOHEXYL PHENOL	131895	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N		
4,6-DINITRO-2-METHYLPHENOL	534521	1.00E-004 E					3.7E+000 N	3.7E-001 N	1.4E-001 N	2.0E+002 N	7.8E+000 N		
2,4-DINITROPHENOL	51285	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N		
DINITROTOLUENE MIX			6.80E-001 I				9.8E-002 C	9.2E-003 C	4.6E-003 C	8.4E+000 C	9.4E-001 C		
2,4-DINITROTOLUENE	121142	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N	2.9E-002	5.7E-001 N
2,6-DINITROTOLUENE	606202	1.00E-003 H					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N	1.2E-002	2.5E-001 N
DINOSEB	88857	1.00E-003 I					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N	8.7E-003	1.7E-001 N

Sources: I = IRIS H = HEAST A = HEAST Alternate W = Withdrawn from IRIS or HEAST
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Basis: C = Carcinogenic effects N = Noncarcinogenic effects I = RBC at HI of 0.1 = RBC-c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	Region III SSLs: Soil, for groundwater migration DAF 1 mg/kg	DAF 20 mg/kg
DIOCTYLPHTHALATE	117840	2.00E-002 H					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	1.2E+005	2.4E+006 N
1,4-DIOXANE	123911		1.10E-002 I				6.1E+000 C	5.7E-001 C	2.9E-001 C	5.2E+002 C	5.8E+001 C	1.3E-003	2.6E-002 C
DIPHENYLAMINE	122394	2.50E-002 I					9.1E+002 N	9.1E+001 N	3.4E+001 N	5.1E+004 N	2.0E+003 N	1.3E+000	2.5E+001 N
1,2-DIPHENYLHYDRAZINE	122667		8.00E-001 I		8.00E-001 I		8.4E-002 C	7.8E-003 C	3.9E-003 C	7.2E+000 C	8.0E-001 C	1.3E-004	2.5E-003 C
DIQUAT	85007	2.20E-003 I					8.0E+001 N	8.0E+000 N	3.0E+000 N	4.5E+003 N	1.7E+002 N	1.7E-002	3.3E-001 N
DISULFOTON	298044	4.00E-005 I					1.5E+000 N	1.5E-001 N	5.4E-002 N	8.2E+001 N	3.1E+000 N	3.2E-003	6.4E-002 N
1,4-DITHIANE	505293	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		
DIURON	330541	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N	5.8E-002	1.2E+000 N
ENDOSULFAN	115297	6.00E-003 I					2.2E+002 N	2.2E+001 N	8.1E+000 N	1.2E+004 N	4.7E+002 N	9.8E-001	2.0E+001 N
ENDRIN	72208	3.00E-004 I					1.1E+001 N	1.1E+000 N	4.1E-001 N	6.1E+002 N	2.3E+001 N	2.7E-001	5.4E+000 N
EPICHLOROHYDRIN	106898	2.00E-003 H	9.90E-003 I	2.86E-004 I	4.20E-003 I	y	2.0E+000 N	1.0E+000 N	3.2E-001 C !	5.8E+002 C !	6.5E+001 C !	4.2E-004	8.4E-003 N
ETHION	563122	5.00E-004 I					1.8E+001 N	1.8E+000 N	6.8E-001 N	1.0E+003 N	3.9E+001 N	3.2E-001	6.4E+000 N
2-ETHOXYETHANOL	110805	4.00E-001 H		5.70E-002 I			1.5E+004 N	2.1E+002 N	5.4E+002 N	8.2E+005 N	3.1E+004 N	3.3E+000	6.5E+001 N
ETHYL ACETATE	141786	9.00E-001 I				y	5.5E+003 N	3.3E+003 N	1.2E+003 N	1.8E+006 N	7.0E+004 N	1.7E+000	3.5E+001 N
ETHYLBENZENE	100414	1.00E-001 I		2.90E-001 I		y	1.3E+003 N	1.1E+003 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	7.5E-001	1.5E+001 N
ETHYLENE DIAMINE	107153	2.00E-002 H					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N		
ETHYLENE GLYCOL	107211	2.00E+000 I					7.3E+004 N	7.3E+003 N	2.7E+003 N	4.1E+006 N	1.6E+005 N	1.5E+001	3.0E+002 N
ETHYLENE GLYCOL, MONOBUTYL ETHER	111762	5.00E-001 I		3.70E+000 I			1.8E+004 N	1.4E+004 N	6.8E+002 N	1.0E+006 N	3.9E+004 N		
ETHYLENE OXIDE	75218		1.00E+000 H		3.50E-001 H	y	2.3E-002 C	1.8E-002 C	3.2E-003 C	5.7E+000 C	6.4E-001 C	4.8E-006	9.5E-005 C
ETHYLENE THIOUREA	96457	8.00E-005 I	1.1E-001 H				6.1E-001 C !	5.7E-002 C !	2.9E-002 C !	5.2E+001 C !	5.8E+000 C !		
ETHYL ETHER	60297	2.00E-001 I				y	1.2E+003 N	7.3E+002 N	2.7E+002 N	4.1E+005 N	1.6E+004 N	4.2E-001	8.5E+000 N
ETHYL METHACRYLATE	97632	9.00E-002 H				y	5.5E+002 N	3.3E+002 N	1.2E+002 N	1.8E+005 N	7.0E+003 N	1.0E+000	2.1E+001 N
FENAMIPHOS	22224926	2.50E-004 I					9.1E+000 N	9.1E-001 N	3.4E-001 N	5.1E+002 N	2.0E+001 N	7.8E-003	1.6E-001 N
FLUOMETURON	2164172	1.30E-002 I					4.7E+002 N	4.7E+001 N	1.8E+001 N	2.7E+004 N	1.0E+003 N		
FLUORINE	7782414	6.00E-002 I					2.2E+003 N	2.2E+002 N	8.1E+001 N	1.2E+005 N	4.7E+003 N		
FOMESAFEN	72178020		1.90E-001 I				3.5E-001 C	3.3E-002 C	1.7E-002 C	3.0E+001 C	3.4E+000 C		
FONOFOS	944229	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N	1.8E-001	3.5E+000 N
FORMALDEHYDE	50000	2.00E-001 I			4.50E-002 I		7.3E+003 N	1.4E-001 C	2.7E+002 N	4.1E+005 N	1.6E+004 N	1.5E+000	3.0E+001 N
FORMIC ACID	64186	2.00E+000 H					7.3E+004 N	7.3E+003 N	2.7E+003 N	4.1E+006 N	1.6E+005 N		
FURAN	110009	1.00E-003 I				y	6.1E+000 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N	1.5E-003	3.0E-002 N
FURAZOLIDONE	67458		3.80E+000 H				1.8E-002 C	1.6E-003 C	8.3E-004 C	1.5E+000 C	1.7E-001 C		
FURFURAL	98011	3.00E-003 I		1.00E-002 A			1.1E+002 N	3.7E+001 N	4.1E+000 N	6.1E+003 N	2.3E+002 N	2.3E-002	4.6E-001 N
GLYCIDALDEHYDE	765344	4.00E-004 I		2.90E-004 H			1.5E+001 N	1.1E+000 N	5.4E-001 N	8.2E+002 N	3.1E+001 N		
GLYPHOSATE	1071836	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N	2.6E+001	5.3E+002 N
HEPTACHLOR	76448	5.00E-004 I	4.50E+000 I		4.50E+000 I		1.5E-002 C	1.4E-003 C	7.0E-004 C	1.3E+000 C	1.4E-001 C	4.2E-002	8.4E-001 C
HEPTACHLOR EPOXIDE	1024573	1.30E-005 I	9.10E+000 I		9.10E+000 I		7.4E-003 C	6.9E-004 C	3.5E-004 C	6.3E-001 C	7.0E-002 C	1.2E-003	2.5E-002 C
HEXABROMOBENZENE	87821	2.00E-003 I					7.3E+001 N	7.3E+000 N	2.7E+000 N	4.1E+003 N	1.6E+002 N		
HEXACHLOROBENZENE	118741	8.00E-004 I	1.60E+000 I		1.60E+000 I		4.2E-002 C	3.9E-003 C	2.0E-003 C	3.6E+000 C	4.0E-001 C	2.6E-003	5.2E-002 C
HEXACHLOROBUTADIENE	87683	2.00E-004 H	7.80E-002 I		7.80E-002 I		8.6E-001 C !	8.0E-002 C !	4.0E-002 C !	7.3E+001 C !	8.2E+000 C !	9.2E-002	1.8E+000 C
ALPHA-HCH	319846		6.30E+000 I		6.30E+000 I		1.1E-002 C	9.9E-004 C	5.0E-004 C	9.1E-001 C	1.0E-001 C	4.5E-005	8.9E-004 C
BETA-HCH	319857		1.80E+000 I		1.80E+000 I		3.7E-002 C	3.5E-003 C	1.8E-003 C	3.2E+000 C	3.5E-001 C	1.6E-004	3.1E-003 C
GAMMA-HCH (LINDANE)	58899	3.00E-004 I	1.30E+000 H				5.2E-002 C	4.8E-003 C	2.4E-003 C	4.4E+000 C	4.9E-001 C	2.2E-004	4.3E-003 C
TECHNICAL HCH	608731		1.80E+000 I		1.80E+000 I		3.7E-002 C	3.5E-003 C	1.8E-003 C	3.2E+000 C	3.5E-001 C		
HEXACHLOROCYCLOPENTADIENE	77474	7.00E-003 I		2.00E-005 H			2.6E+002 N	7.3E-002 N	9.5E+000 N	1.4E+004 N	5.5E+002 N	1.0E+002	2.0E+003 N
HEXACHLORODIBENZODIOXIN MIX	19408743		6.20E+003 I		4.55E+003 I		1.1E-005 C	1.4E-006 C	5.1E-007 C	9.2E-004 C	1.0E-004 C		

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E = EPA NCEA provisional value; O = other

Basis: C = Carcinogenic effects; N = Noncarcinogenic effects; I = RBC at HI of 0.1; * = RBC c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	Region III SSLs, Soil, for groundwater migration: DAF 1 mg/kg	DAF 20 mg/kg
HEXACHLOROETHANE	67721	1.00E-003 I	1.40E-002 I		1.40E-002 I		4.8E+000 C *	4.5E-001 C *	2.3E-001 C *	4.1E+002 C *	4.6E+001 C *	1.8E-002	3.6E-001 C
HEXACHLOROPHENE	70304	3.00E-004 I					1.1E+001 N	1.1E+000 N	4.1E-001 N	6.1E+002 N	2.3E+001 N	1.0E+002	2.0E+003 N
1,6-HEXAMETHYLENE DIISOCYANATE	822060			2.90E-006 I				1.1E-002 N					
HEXANE	110543	6.00E-002 H		5.71E-002 I		y	3.5E+002 N	2.1E+002 N	8.1E+001 N	1.2E+005 N	4.7E+003 N	6.9E-001	1.4E+001 N
2-HEXANONE	591786	4.00E-002 E		1.4E-003 E			1.5E+003 N	5.1E+000 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
HEXAZINONE	51235042	3.30E-002 I					1.2E+003 N	1.2E+002 N	4.5E+001 N	6.7E+004 N	2.6E+003 N		
HMX	2691410	5.00E-002 I					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N		
HYDRAZINE	302012		3.00E+000 I		1.70E+001 I		2.2E-002 C	3.7E-004 C	1.1E-003 C	1.9E+000 C	2.1E-001 C		
HYDROGEN CHLORIDE	7647010			5.70E-003 I				2.1E+001 N					
HYDROGEN SULFIDE	7783064	3.00E-003 I		2.85E-004 I			1.1E+002 N	1.0E+000 N	4.1E+000 N	6.1E+003 N	2.3E+002 N		
HYDROQUINONE	123319	4.00E-002 H					1.5E+003 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N		
IRON	7439896	3.00E-001 E					1.1E+004 N	1.1E+003 N	4.1E+002 N	6.1E+005 N	2.3E+004 N		
ISOBUTANOL	78831	3.00E-001 I				y	1.8E+003 N	1.1E+003 N	4.1E+002 N	6.1E+005 N	2.3E+004 N	5.9E-001	1.2E+001 N
ISOPHORONE	78591	2.00E-001 I	9.50E-004 I				7.0E+001 C	6.6E+000 C	3.3E+000 C	6.0E+003 C	6.7E+002 C	2.1E-002	4.1E-001 C
ISOPROPALIN	3382053D	1.50E-002 I					5.5E+002 N	5.5E+001 N	2.0E+001 N	3.1E+004 N	1.2E+003 N		
ISOPROPYL METHYL PHOSPHONIC ACID	1832548	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N		
TETRAETHYLLEAD	78002	1.00E-007 I					3.7E-003 N	3.7E-004 N	1.4E-004 N	2.0E-001 N	7.8E-003 N	4.6E-005	9.2E-004 N
LITHIUM	7439932	2.00E-002 E					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N		
MALATHION	121755	2.00E-002 I					7.3E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	4.0E-001	8.1E+000 N
MALEIC ANHYDRIDE	108316	1.00E-001 I					3.7E+003 N	3.7E+002 N	1.4E+002 N	2.0E+005 N	7.8E+003 N		
MANGANESE-NONFOOD	7439965	2.00E-002 I		1.43E-005 I			7.3E+002 N	5.2E-002 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	4.8E+001	9.5E+002 N
MANGANESE-FOOD	7439965	1.40E-001 I		1.43E-005 I			5.1E+003 N	5.2E-002 N	1.9E+002 N	2.9E+005 N	1.1E+004 N	3.3E+002	6.7E+003 N
MEPHOSFOLAN	950107	9.00E-005 H					3.3E+000 N	3.3E-001 N	1.2E-001 N	1.8E+002 N	7.0E+000 N		
MEPIQUAT CHLORIDE	24307264	3.00E-002 I					1.1E+003 N	1.1E+002 N	4.1E+001 N	6.1E+004 N	2.3E+003 N		
MERCURIC CHLORIDE	7487947	3.00E-004 I					1.1E+001 N	1.1E+000 N	4.1E-001 N	6.1E+002 N	2.3E+001 N		
MERCURY (INORGANIC)	7439976			8.60E-005 I				3.1E-001 N					
METHYLMERCURY	22967926	1.00E-004 I					3.7E+000 N	3.7E-001 N	1.4E-001 N	2.0E+002 N	7.8E+000 N		
METHACRYLONITRILE	126987	1.00E-004 I		2.00E-004 A		y	1.0E+000 N	7.3E-001 N	1.4E-001 N	2.0E+002 N	7.8E+000 N	2.1E-004	4.2E-003 N
METHANOL	67561	5.00E-001 I					1.8E+004 N	1.8E+003 N	6.8E+002 N	1.0E+006 N	3.9E+004 N	3.8E+000	7.5E+001 N
METHIDATHION	950378	1.00E-003 I					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N		
METHOXYCHLOR	72435	5.00E-003 I					1.8E+002 N	1.8E+001 N	6.8E+000 N	1.0E+004 N	3.9E+002 N	1.5E+001	3.1E+002 N
METHYL ACETATE	79209	1.00E+000 H				y	6.1E+003 N	3.7E+003 N	1.4E+003 N	2.0E+006 N	7.8E+004 N	1.2E+000	2.5E+001 N
METHYL ACRYLATE	96333	3.00E-002 A				y	1.8E+002 N	1.1E+002 N	4.1E+001 N	6.1E+004 N	2.3E+003 N	5.0E-001	1.0E+001 N
2-METHYLANILINE	95534		2.40E-001 H				2.8E-001 C	2.6E-002 C	1.3E-002 C	2.4E+001 C	2.7E+000 C	2.8E-004	5.7E-003 C
4-(2-METHYL-4-CHLOROPHENOXY) BUTYRIC ACID	94815	1.00E-002 I					3.7E+002 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N		
2-METHYL-4-CHLOROPHENOXYACETIC ACID (MCPA)	94746	5.00E-004 I					1.8E+001 N	1.8E+000 N	6.8E-001 N	1.0E+003 N	3.9E+001 N		
2-(2-METHYL-4-CHLOROPHENOXY)PROPIONIC ACID (MCPP)	93652	1.00E-003 I					3.7E+001 N	3.7E+000 N	1.4E+000 N	2.0E+003 N	7.8E+001 N		
METHYLCYCLOHEXANE	108872			8.60E-001 H		y	6.3E+003 N	3.1E+003 N					
METHYLENE BROMIDE	74953	1.00E-002 A				y	6.1E+001 N	3.7E+001 N	1.4E+001 N	2.0E+004 N	7.8E+002 N	1.5E-002	3.0E-001 N
METHYLENE CHLORIDE	75092	6.00E-002 I	7.50E-003 I	8.60E-001 H	1.65E-003 I	y	4.1E+000 C	3.8E+000 C	4.2E-001 C	7.6E+002 C	8.5E+001 C	9.5E-004	1.9E-002 C
4,4'-METHYLENE BIS(2-CHLOROANILINE)	101144	7.00E-004 H	1.30E-001 H		1.30E-001 H		5.2E-001 C	4.8E-002 C	2.4E-002 C	4.4E+001 C	4.9E+000 C		
4,4'-METHYLENE BIS(N,N'-DIMETHYL)ANILINE	101611		4.60E-002 I				1.5E+000 C	1.4E-001 C	6.9E-002 C	1.2E+002 C	1.4E+001 C		
4,4'-METHYLENEDIPHENYL ISOCYANATE	101688			1.7E-004 I				6.2E-001 N					
METHYL ETHYL KETONE (2-BUTANONE)	78933	6.00E-001 I		2.86E-001 I		y	1.9E+003 N	1.0E+003 N	8.1E+002 N	1.2E+006 N	4.7E+004 N	4.0E-001	7.9E+000 N
METHYL HYDRAZINE	60344		1.10E+000 W				6.1E-002 C	5.7E-003 C	2.9E-003 C	5.2E+000 C	5.8E-001 C		

Sources: I = IRIS H = HEAST A = HEAST Alternate W = Withdrawn from IRIS or HEAST
L = EPA NCEA provisional value O = other

Basis: C = Carcinogenic effects N = Noncarcinogenic effects I = HBC at HI of 0.1 < HBC-c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil industrial mg/kg	Soil residential mg/kg	Region III SSLs, Soil, for groundwater migration: DAF 1 mg/kg	DAF 20 mg/kg
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108101	8 00E-002 H		2 00E-002 A		y	1 4E+002 N	7 3E+001 N	1 1E+002 N	1.6E+005 N	6 3E+003 N	6.5E-002	1.3E+000 N
METHYL METHACRYLATE	80626	1 40E+000 I		2 00E-001 I		y	1 4E+003 N	7 3E+002 N	1 9E+003 N	2 9E+006 N	1.1E+005 N	3.2E-001	6.5E+000 N
2-METHYL-5-NITROANILINE	99558		3 30E-002 H				2 0E+000 C	1 9E-001 C	9 6E-002 C	1.7E+002 C	1.9E+001 C		
METHYL PARATHION	298000	2 50E-004 I					9 1E+000 N	9 1E-001 N	3 4E-001 N	5 1E+002 N	2 0E+001 N	4.3E-003	8.5E-002 N
2-METHYLPHENOL	95487	5.00E-002 I					1 8E+003 N	1 8E+002 N	6 8E+001 N	1.0E+005 N	3 9E+003 N		
3-METHYLPHENOL	108394	5 00E-002 I					1 8E+003 N	1 8E+002 N	6 8E+001 N	1.0E+005 N	3.9E+003 N		
4-METHYLPHENOL	106445	5 00E-003 H					1 8E+002 N	1 8E+001 N	6 8E+000 N	1 0E+004 N	3.9E+002 N		
METHYLSTYRENE MIX	25013154	6.00E-003 A		1 00E-002 A		y	5.5E+001 N	3 7E+001 N	8.1E+000 N	1 2E+004 N	4.7E+002 N	5.1E-002	1.0E+000 N
ALPHA-METHYLSTYRENE	98839	7 00E-002 A				y	4 3E+002 N	2 6E+002 N	9 5E+001 N	1.4E+005 N	5 5E+003 N	4.0E-001	7.9E+000 N
METHYL TERT-BUTYL ETHER	1634044			8 57E-001 I		y	6 3E+003 N	3 1E+003 N				1.4E+000	2.8E+001 N
METOLACHLOR (DUAL)	51218452	1 50E-001 I					5 5E+003 N	5 5E+002 N	2 0E+002 N	3 1E+005 N	1 2E+004 N		
MIREX	2385855	2 00E-004 I					7 3E+000 N	7 3E-001 N	2 7E-001 N	4.1E+002 N	1 6E+001 N		
MOLYBDENUM	7439987	5E-003 I					1 8E+002 N	1 8E+001 N	6 8E+000 N	1.0E+004 N	3 9E+002 N		
MONOCHLORAMINE	10599903	1E-001 I		1 00E-001 H			3 7E+003 N	3 7E+002 N	1 4E+002 N	2 0E+005 N	7.8E+003 N		
NALED	300765	2E-003 I					7 3E+001 N	7 3E+000 N	2 7E+000 N	4 1E+003 N	1 6E+002 N		
NICKEL REFINERY DUST					8 4E-001 I			7 5E-003 C					
NICKEL	7440020	2 00E-002 I					7.3E+002 N	7 3E+001 N	2.7E+001 N	4.1E+004 N	1 6E+003 N		
NITRATE	14797558	1 60E+000 I					5 8E+004 N	5 8E+003 N	2 2E+003 N	3.3E+006 N	1.3E+005 N		
NITRIC OXIDE	10102439	1.00E-001 W				y	6 1E+002 N	3 7E+002 N	1 4E+002 N	2.0E+005 N	7 8E+003 N		
NITRITE	14797650	1 00E-001 I					3 7E+003 N	3 7E+002 N	1 4E+002 N	2.0E+005 N	7.8E+003 N		
2-NITROANILINE	88744			5 70E-005 H				2 1E-001 N					
NITROBENZENE	98953	5 00E-004 I		6 00E-004 A		y	3 5E+000 N	2 2E+000 N	6 8E-001 N	1.0E+003 N	3 9E+001 N	1 2E-003	2.3E-002 N
NITROFURANTOIN	67209	7 00E-002 H					2 6E+003 N	2 6E+002 N	9.5E+001 N	1.4E+005 N	5.5E+003 N		
NITROFURAZONE	59870		1 50E+000 H				4 5E-002 C	4 2E-003 C	2 1E-003 C	3.8E+000 C	4 3E-001 C		
NITROGEN DIOXIDE	10102440	1 00E+000 W				y	6 1E+003 N	3 7E+003 N	1 4E+003 N	2 0E+006 N	7 8E+004 N		
NITROGLYCERIN	55630		1 4E-002 E				4 8E+000 C	4 5E-001 C	2 3E-001 C	4.1E+002 C	4.6E+001 C		
4-NITROPHENOL	100027	8 00E-003 E					2 9E+002 N	2 9E+001 N	1 1E+001 N	1.6E+004 N	6 3E+002 N	8.7E-002	1.7E+000 N
2-NITROPROPANE	79469			5 70E-003 I	9 40E+000 H	y	1.3E-003 C	6 7E-004 C				3.2E-007	6.4E-006 C
N-NITROSO-DI-N-BUTYLAMINE	924163		5 40E+000 I		5 60E+000 I	y	1 9E-003 C	1 1E-003 C	5 8E-004 C	1.1E+000 C	1 2E-001 C	1.4E-006	2.7E-005 C
N-NITROSODIETHANOLAMINE	1116547		2 80E+000 I				2.4E-002 C	2 2E-003 C	1 1E-003 C	2 0E+000 C	2 3E-001 C		
N-NITROSODIETHYLAMINE	55185		1 50E+002 I		1 50E+002 I		4 5E-004 C	4 2E-005 C	2 1E-005 C	3 8E-002 C	4.3E-003 C	1.1E-007	2.3E-006 C
N-NITROSODIMETHYLAMINE	62759		5 10E+001 I		5 10E+001 I		1 3E-003 C	1 2E-004 C	6 2E-005 C	1 1E-001 C	1 3E-002 C	2.8E-007	5.7E-006 C
N-NITROSODIPHENYLAMINE	86306		4 90E-003 I				1 4E+001 C	1 3E+000 C	6 4E-001 C	1.2E+003 C	1 3E+002 C	3.8E-002	7.6E-001 C
N-NITROSODIPROPYLAMINE	621647		7 00E+000 I				9 6E-003 C	8 9E-004 C	4.5E-004 C	8 2E-001 C	9 1E-002 C	2.4E-006	4.7E-005 C
N-NITROSO-N-ETHYLUREA	759739		1 40E+002 H				4 8E-004 C	4 5E-005 C	2 3E-005 C	4.1E-002 C	4.6E-003 C		
N-NITROSO-N-METHYLETHYLAMINE	10595956		2 20E+001 I				3 0E-003 C	2 8E-004 C	1 4E-004 C	2 6E-001 C	2 9E-002 C		
N-NITROSOPYRROLIDINE	930552		2 10E+000 I		2 10E+000 I		3 2E-002 C	3 0E-003 C	1 5E-003 C	2.7E+000 C	3 0E-001 C		
M-NITROTOLUENE	99081	2 00E-002 E				y	1 2E+002 N	7 3E+001 N	2 7E+001 N	4 1E+004 N	1.6E+003 N		
O-NITROTOLUENE	88722	1 00E-002 H				y	6 1E+001 N	3 7E+001 N	1.4E+001 N	2 0E+004 N	7.8E+002 N		
P-NITROTOLUENE	99990	1 00E-002 H				y	6.1E+001 N	3 7E+001 N	1 4E+001 N	2.0E+004 N	7.8E+002 N		
NUSTAR	85509199	7 00E-004 I					2 6E+001 N	2 6E+000 N	9 5E-001 N	1 4E+003 N	5.5E+001 N		
ORYZALIN	19044883	5 00E-002 I					1 8E+003 N	1 8E+002 N	6 8E+001 N	1 0E+005 N	3 9E+003 N		
OXADIAZON	19666309	5.00E-003 I					1 8E+002 N	1 8E+001 N	6 8E+000 N	1 0E+004 N	3.9E+002 N		
OXAMYL	23135220	2.50E-002 I					9 1E+002 N	9 1E+001 N	3 4E+001 N	5.1E+004 N	2 0E+003 N	1.9E-001	3.8E+000 N
OXYFLUORFEN	42874033	3 00E-003 I					1.1E+002 N	1 1E+001 N	4 1E+000 N	6.1E+003 N	2 3E+002 N		

Sources: I = IRIS; H = HEAST; A = HEAST Alternate; W = Withdrawn from IRIS or HEAST; E = EPA NCEA provisional value; O = other

Basis: C = Carcinogenic effects; N = Noncarcinogenic effects; I = RBC at HI of 0.1; * = RBC<c

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations: Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	Region III SSLs, Soil, for groundwater migration: DAF 1 mg/kg	DAF 20 mg/kg
PARAQUAT DICHLORIDE	1910425	4.50E-003 I					1.6E+002 N	1.6E+001 N	6.1E+000 N	9.2E+003 N	3.5E+002 N		
PARATHION	56382	6.00E-003 H					2.2E+002 N	2.2E+001 N	8.1E+000 N	1.2E+004 N	4.7E+002 N	5.0E-001	1.0E+001 N
PENTACHLOROBENZENE	608935	8.00E-004 I					2.9E+001 N	2.9E+000 N	1.1E+000 N	1.6E+003 N	6.3E+001 N	1.0E+000	2.0E+001 N
PENTACHLORONITROBENZENE	82688	3.00E-003 I	2.60E-001 H				2.6E-001 C	2.4E-002 C	1.2E-002 C	2.2E+001 C	2.5E+000 C	4.1E-003	8.2E-002 C
PENTACHLOROPHENOL	87865	3.00E-002 I	1.20E-001 I				5.6E-001 C	5.2E-002 C	2.6E-002 C	4.8E+001 C	5.3E+000 C		
PERMETHRIN	52645531	5.00E-002 I					1.8E+003 N	1.8E+002 N	6.8E+001 N	1.0E+005 N	3.9E+003 N	1.2E+002	2.4E+003 N
PHENOL	108952	6.00E-001 I					2.2E+004 N	2.2E+003 N	8.1E+002 N	1.2E+006 N	4.7E+004 N	6.7E+000	1.3E+002 N
M-PHENYLENEDIAMINE	108452	6.00E-003 I					2.2E+002 N	2.2E+001 N	8.1E+000 N	1.2E+004 N	4.7E+002 N	4.9E-002	9.8E-001 N
O-PHENYLENEDIAMINE	95545		4.70E-002 H				1.4E+000 C	1.3E-001 C	6.7E-002 C	1.2E+002 C	1.4E+001 C		
P-PHENYLENEDIAMINE	106503	1.90E-001 H					6.9E+003 N	6.9E+002 N	2.6E+002 N	3.9E+005 N	1.5E+004 N		
2-PHENYLPHENOL	90437		1.90E-003 H				3.5E+001 C	3.3E+000 C	1.7E+000 C	3.0E+003 C	3.4E+002 C		
PHOSPHINE	7803512	3.00E-004 I		8.60E-005 I			1.1E+001 N	3.1E-001 N	4.1E-001 N	6.1E+002 N	2.3E+001 N		
PHOSPHORIC ACID	7664382			2.90E-003 I				1.1E+001 N					
PHOSPHORUS (WHITE)	7723140	2.00E-005 I					7.3E-001 N	7.3E-002 N	2.7E-002 N	4.1E+001 N	1.6E+000 N		
P-PHTHALIC ACID	100210	1.00E+000 H					3.7E+004 N	3.7E+003 N	1.4E+003 N	2.0E+006 N	7.8E+004 N		
PHTHALIC ANHYDRIDE	85449	2.00E+000 I		3.43E-002 H			7.3E+004 N	1.3E+002 N	2.7E+003 N	4.1E+006 N	1.6E+005 N	2.6E+001	5.2E+002 N
POLYBROMINATED BIPHENYLS		7.00E-006 H	8.90E+000 H				7.5E-003 C	7.0E-004 C	3.5E-004 C	6.4E-001 C	7.2E-002 C !		
POLYCHLORINATED BIPHENYLS	1336363		2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C	2.1E-002	4.1E-001 C
AROCLOR-1016	12674112	7.00E-005 I	7.00E-002 I		7.00E-002 I		9.6E-001 C !	8.9E-002 C !	4.5E-002 C !	8.2E+001 C !	5.5E+000 N	2.1E-001	4.2E+000 C
AROCLOR-1221	11104282		2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C		
AROCLOR-1232	11141165		2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C		
AROCLOR-1242	53469219		2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C		
AROCLOR-1248	12672296		2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C		
AROCLOR-1254	11097691	2.00E-005 I	2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C !	5.4E-002	1.1E+000 C
AROCLOR-1260	11096825		2.00E+000 I		2.00E+000 I		3.3E-002 C	3.1E-003 C	1.6E-003 C	2.9E+000 C	3.2E-001 C		
POLYCHLORINATED TERPHENYLS	61788338		4.50E+000 E				1.5E-002 C	1.4E-003 C	7.0E-004 C	1.3E+000 C	1.4E-001 C		
POLYNUCLEAR AROMATIC HYDROCARBONS													
ACENAPHTHENE	83329	6.00E-002 I				y	3.7E+002 N	2.2E+002 N	8.1E+001 N	1.2E+005 N	4.7E+003 N	5.2E+000	1.0E+002 N
ANTHRACENE	120127	3.00E-001 I				y	1.8E+003 N	1.1E+003 N	4.1E+002 N	6.1E+005 N	2.3E+004 N	2.3E+001	4.7E+002 N
BENZ[A]ANTHRACENE	56553		7.30E-001 E				9.2E-002 C	8.6E-003 C	4.3E-003 C	7.8E+000 C	8.7E-001 C	7.3E-002	1.5E+000 C
BENZO[B]FLUORANTHENE	205992		7.30E-001 E				9.2E-002 C	8.6E-003 C	4.3E-003 C	7.8E+000 C	8.7E-001 C	2.3E-001	4.5E+000 C
BENZO[K]FLUORANTHENE	207089		7.30E-002 E				9.2E-001 C	8.6E-002 C	4.3E-002 C	7.8E+001 C	8.7E+000 C	2.3E+000	4.5E+001 C
BENZO[A]PYRENE	50328		7.30E+000 I		3.10E+000 E		9.2E-003 C	2.0E-003 C	4.3E-004 C	7.8E-001 C	8.7E-002 C	1.9E-002	3.7E-001 C
CARBAZOLE	86748		2.00E-002 H				3.3E+000 C	3.1E-001 C	1.6E-001 C	2.9E+002 C	3.2E+001 C	2.3E-002	4.7E-001 C
CHRYSENE	218019		7.30E-003 E				9.2E+000 C	8.6E-001 C	4.3E-001 C	7.8E+002 C	8.7E+001 C	7.3E+000	1.5E+002 C
DIBENZ[A,H]ANTHRACENE	53703		7.30E+000 E				9.2E-003 C	8.6E-004 C	4.3E-004 C	7.8E-001 C	8.7E-002 C	7.0E-002	1.4E+000 C
DIBENZOFURAN	132649	4.00E-003 E				y	2.4E+001 N	1.5E+001 N	5.4E+000 N	8.2E+003 N	3.1E+002 N	3.8E-001	7.7E+000 N
FLUORANTHENE	206440	4.00E-002 I					1.5E+003 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N	3.1E+002	6.3E+003 N
FLUORENE	86737	4.00E-002 I				y	2.4E+002 N	1.5E+002 N	5.4E+001 N	8.2E+004 N	3.1E+003 N	6.8E+000	1.4E+002 N
INDENO[1,2,3-C,D]PYRENE	193395		7.30E-001 E				9.2E-002 C	8.6E-003 C	4.3E-003 C	7.8E+000 C	8.7E-001 C	6.4E-001	1.3E+001 C
2-METHYLNAPHTHALENE	91576	2.00E-002 E				y	1.2E+002 N	7.3E+001 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	1.1E+000	2.2E+001 N
NAPHTHALENE	91203	2.00E-002 I		9.00E-004 I		y	6.5E+000 N	3.3E+000 N	2.7E+001 N	4.1E+004 N	1.6E+003 N	7.7E-003	1.5E-001 N
PYRENE	129000	3.00E-002 I				y	1.8E+002 N	1.1E+002 N	4.1E+001 N	6.1E+004 N	2.3E+003 N	3.4E+001	6.8E+002 N
PROMETON	1610180	1.50E-002 I					5.5E+002 N	5.5E+001 N	2.0E+001 N	3.1E+004 N	1.2E+003 N		
PROMETRYN	7287196	4.00E-003 I					1.5E+002 N	1.5E+001 N	5.4E+000 N	8.2E+003 N	3.1E+002 N		

SECTION G

FACILITY LIQUID AND SLUDGE WASTE DISPOSITION

Facility Waste Oil and Sludge Disposition

USED OIL Safety-Kleen

Document Number	Gallons	Date
392725	4500	9/18/98
392729	5000	9/22/98
392730	6000	9/22/98
392748	5100	10/12/98
392760	6000	10/12/98
392779	5200	10/28/98
TOTAL	31,800	

HAZARDOUS WASTE Heritage Environmental / Reneco

MANIFEST NUMBER	GALLONS	DATE
MODO7327609-10238	4724	10/23/98
MODO7327609-10239	4724	10/29/98
MODO7327609-10240	4653	11/25/98
MODO7327609-10241	5400	11/30/98
MODO7327609-10242	5400	12/7/98
MODO7327609-10243	282	12/16/98
MODO7327609-16939	4000	1/27/99
MODO7327609-16940	4000	2/2/98
MODO7327609-16941	4000	1/24/99
TOTAL	37,183	

OIL SERVICES / WASTE TRACKING

afety-Kleen (T[illegible], Inc. % Philip Services
W. 8th Stree
CMO 64101

PHONE NUMBER 800-821-4302 | EPA ID NO. MOD000610766 | STATE EPA ID NO.

DOCUMENT NO. 39272

1	Safety-Kleen (TG), Inc. PO Box 11393 Columbia, SC 29211	SCD98[illegible]647
2		
3		

Safety-Kleen Corp.
601 Riley Rd.
East Chicago, IN 46312

US EPA ID NUMBER: IND077042034
STATE EPA ID NUMBER:
PHONE NUMBER: 800-535-5407

IN EMERGENCY CALL [illegible]760 (24 hours)

	WASTE OIL (NOT USDOT REGULATED)					
	USED ANTIFREEZE (NO USDOT OR USEPA REGULATED)					
	USED OIL (NOT USDOT REGULATED)	001	t/t	4500	gals	850

INITIAL APPROPRIATE BOX

OIL SERVICES CERTIFICATION NO. 1

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM A BRANCH TO A PROCESSING FACILITY

I certify that to the best of my knowledge, the used oil contained in this shipment does not contain regulated [illegible]dous waste as defined in 40 CFR 261, and does not require the use of a hazardous waste manifest except in the [illegible]wing states as required by state law: Illinois, Missouri, Michigan, South Carolina, Massachusetts, and New Jersey. The oil has been collected and tested in compliance with 40 CFR 266 and applicable state laws using either:

1) Analytical data regarding the generator's used oil stream, or

2) Knowledge of the generator's process.

In addition, the collection drivers obtained certification from every generator that 40 CFR 261 Part D listed hazardous wastes have not been mixed with the used oil. Documentation supporting the above statements may be found in the files of the shipping facility identified above.

DMS
SHIPPER'S INITIALS

OIL SERVICES CERTIFICATION NO. 2

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM AN INTERMEDIATE STORAGE FACILITY TO A PROCESSING FACILITY

I certify that all used oil contained in this shipment has been received at this site accompanied by a Certificate of Used Oil Classification from the collection branch/depot. That certificate ensure that all material was collected in compliance with 40 CFR 266 and the used oil does not contain hazardous waste. Documentation supporting these statements are available at the shipping facilities.

SHIPPER'S INITIALS

Emergency contact # 800-468-1760

INTERMODAL CERTIFICATION: GROSS CARGO WEIGHT _____ CONTENTS PLUS PACKAGING

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

SHIPPER NAME: Safety-Kleen (TG), Inc.	SIGNATURE X Dennis M Super	SHIPMENT DATE ▷	MONTH 9	DAY 18	YEAR 98	TRUCK NO.
TRANSPORTER NAME 1: Safety-Kleen (TG), Inc.	SIGNATURE X [illegible]	DATE OF RECEIPT	MONTH 9	DAY 18	YEAR 98	SET 562
TRANSPORTER NAME 2	SIGNATURE X		MONTH	DAY	YEAR	
TRANSPORTER NAME 3	SIGNATURE X		MONTH	DAY	YEAR	
RECEIVING FACILITY: Safety-Kleen	SIGNATURE X		MONTH	DAY	YEAR	

FORM 1380 (6/97)

SHIPPER

Safety-Kleen Systems %Philip Services
1330 W. 8th Street
KCMO 64101

DOCUMENT NO.
392729

PHONE NUMBER 800-821-4302 | US EPA ID NO. MOD000610766 | STATE EPA ID NO.

	TRANSPORTER COMPANY NAME		EPA ID NUMBER
1	Safety-Kleen (TG), Inc	PO Box 11393 Columbia, SC 29211	SCD987574647
2			
3			

Safety-Kleen
601 Riley Rd.
East Chicago, IN 46312

US EPA ID NUMBER: IND077042034
STATE EPA ID NUMBER:
PHONE NUMBER: 800-535-5407

HM	US DOT DESCRIPTION (IN EVENT OF EMERGENCY CALL 1-800-468-1760 (24 hours))	CONTAINER NO.	CONTAINER TYPE	TOTAL QUANTITY	UNIT WT/VOL	SK DOT NUMBER
	WASTE OIL (NOT USDOT REGULATED)					
	USED ANTIFREEZE (NO USDOT OR USEPA REGULATED)					
	USED OIL (NOT USDOT REGULATED)	001	t/t	5000	gals	850

OIL SERVICES CERTIFICATION NO. 1

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM A BRANCH TO A PROCESSING FACILITY

I certify that to the best of my knowledge, the used oil contained in this shipment does not contain regulated hazardous waste as defined in 40 CFR 261, and does not require the use of a hazardous waste manifest except in the following states as required by state law: Illinois, Missouri, Michigan, South Carolina, Massachusetts, and New Jersey. The oil has been collected and tested in compliance with 40 CFR 266 and applicable state laws using either:

1) Analytical data regarding the generator's used oil stream, or

2) Knowledge of the generator's process.

In addition, the collection drivers obtained certification from every generator that 40 CFR 261 Part D listed hazardous wastes have not been mixed with the used oil. Documentation supporting the above statements may be found in the files of the shipping facility identified above.

SHIPPER'S INITIALS

OIL SERVICES CERTIFICATION NO. 2

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM AN INTERMEDIATE STORAGE FACILITY TO A PROCESSING FACILITY

I certify that all used oil contained in this shipment has been received at this site accompanied by a Certificate of Used Oil Classification from the collection branch/depot. That certificate ensure that all material was collected in compliance with 40 CFR 266 and the used oil does not contain hazardous waste. Documentation supporting these statements are available at the shipping facilities.

SHIPPER'S INITIALS

Emergency contact # 800-468-1760

SK336
SK5472

MODAL CLASSIFICATION: GROSS CARGO WEIGHT _____ CONTENTS PLUS PACKAGING

R'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

			MONTH	DAY	YEAR	TRUCK CAR ID NO
Safety-Kleen Systems	SIGNATURE X	SHIPMENT DATE	9	22	98	
...TER ...fety-Kleen (TG), Inc.	SIGNATURE X	DATE OF RECEIPT	9	22	98	SK5 472
...R NAME	SIGNATURE X					
...TER NAME	SIGNATURE X					
Safety-Kleen	SIGNATURE X					

OIL SERVICES / WASTE TRACKING

DOCUMENT NO.
392730

Safety-Kleen Systems & Philip Services
1330 W. 8th Street
KCMO 64101

400400-001

PHONE NUMBER 800-821-4302
US EPA ID NO. MOD000610766
STATE EPA ID NO.

CUSTOMER NUMBER
MANIFEST NUMBER

TRANSPORTER COMPANY NAME	ADDRESS	US EPA ID NUMBER
1 Southlake Environ.	17011 Wicker Ave Lowell, IN 46356	IND984867390
2		
3		

Safety-Kleen
601 Riley Rd.
East Chicago, IN 46312

US EPA ID NUMBER IND077042034
STATE EPA ID NUMBER
PHONE NUMBER 800-535-5407

HM	US DOT DESCRIPTION (IN EVENT OF EMERGENCY CALL 1-800-468-1760 (24 hours))	CONTAINERS NO.	CONTAINERS TYPE	TOTAL QUANTITY	UNIT WT/VOL	US DOT NUMBER
	WASTE OIL (NOT USDOT REGULATED)					
	USED ANTIFREEZE (NO USDOT OR USEPA REGULATED)					
	USED OIL (NOT USDOT REGULATED)	001	t/t	6000	gals.	850

OIL SERVICES CERTIFICATION NO. 1

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION
R SHIPMENT FROM A BRANCH TO A PROCESSING FACILITY

ify that to the best of my knowledge, the used oil contained in this shipment does not contain regulated hazardous waste as defined in 40 CFR 261, and does not require the use of a hazardous waste manifest except in the following states as required by state law: Illinois, Missouri, Michigan, South Carolina, Massachusetts, and New Jersey. The oil has been collected and tested in compliance with 40 CFR 266 and applicable state laws using either:

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2) Knowledge of the generator's process.

In addition, the collection drivers obtained certification from every generator that 40 CFR 261 Part D listed hazardous wastes have not been mixed with the used oil. Documentation supporting the above statements may be found in the files of the shipping facility identified above.

DMS
SHIPPER'S INITIALS

OIL SERVICES CERTIFICATION NO. 2

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION
FOR SHIPMENT FROM AN INTERMEDIATE STORAGE FACILITY
TO A PROCESSING FACILITY

I certify that all used oil contained in this shipment has been received at this site accompanied by a Certificate of Used Oil Classification from the collection branch/depot. That certificate ensure that all material was collected in compliance with 40 CFR 266 and the used oil does not contain hazardous waste. Documentation supporting these statements are available at the shipping facilities.

SHIPPER'S INITIALS

Emergency contact # 800-468-1760

INTERMODAL CERTIFICATION GROSS CARGO WEIGHT _____ CONTENTS PLUS PACKAGING

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

SHIPPER NAME	Safety-Kleen Systems	SIGNATURE X Dennis M Sucher	SHIPMENT DATE ▷	MONTH 9 DAY 22 YEAR 98	TRUCK/RAIL CAR ID NO
TRANSPORTER NAME 1	Southlake Environ. B. N Sluemark	SIGNATURE X Bill Hoenshen	DATE OF RECEIPT	MONTH 9 DAY 22 YEAR 98	163/18
TRANSPORTER NAME 2		SIGNATURE X		MONTH DAY YEAR	
TRANSPORTER NAME 3		SIGNATURE X		MONTH DAY YEAR	
RECEIVING FACILITY	Safety-Kleen	SIGNATURE X		MONTH DAY YEAR	

FORM 1380 (6/97)

OIL SERVICES / WASTE TRACKING

400400 - 001

DOCUMENT NO. 392748

Safety-Kleen Syst s % Philip Serv.
1330 W. 8th Street
KCMO 64101

PHONE NUMBER 800-821-4302 | US EPA ID NO. MOD000610766 | STATE EPA ID NO.

1	Altom Transport Inc	4946 S CiceroAve Chicago, IL 60638	ILD984774331
2			
3			

Safety-Kleen
601 Riley Road
East Chicago, IN 46312

US EPA ID NUMBER IND077042034
STATE EPA ID NUMBER
PHONE NUMBER 800-327-8903

IN EVENT OF EMERGENCY CALL
1-800-468-1760 (24 hours)

	WASTE OIL (NOT USDOT REGULATED)					
	USED ANTIFREEZE (NO USDOT OR USEPA REGULATED)					
	USED OIL (NOT USDOT REGULATED)	001	t/t	~~6000~~ 5100	gals	850

INITIAL APPROPRIATE BOX

OIL SERVICES CERTIFICATION NO. 1

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM A BRANCH TO A PROCESSING FACILITY

I certify that to the best of my knowledge, the used oil contained in this shipment does not contain regulated hazardous waste as defined in 40 CFR 261, and does not require the use of a hazardous waste manifest except in the following states as required by state law: Illinois, Missouri, Michigan, South Carolina, Massachusetts, and New Jersey. The oil has been collected and tested in compliance with 40 CFR 266 and applicable state laws using either:

1) Analytical data regarding the generator's used oil stream, or

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In addition, the collection drivers obtained certification from every generator that 40 CFR 261 Part D listed hazardous wastes have not been mixed with the used oil. Documentation supporting the above statements may be found in the files of the shipping facility identified above.

SHIPPER'S INITIALS

OIL SERVICES CERTIFICATION NO. 2

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM AN INTERMEDIATE STORAGE FACILITY TO A PROCESSING FACILITY

I certify that all used oil contained in this shipment has been received at this site accompanied by a Certificate of Used Oil Classification from the collection branch/depot. That certificate ensure that all material was collected in compliance with 40 CFR 266 and the used oil does not contain hazardous waste. Documentation supporting these statements are available at the shipping facilities.

SHIPPER'S INITIALS

Emergency contact # 800-468-1760

Truck # 46

Trl #21127

INTERMEDIATE CERTIFICATION GROSS CARGO WEIGHT _____ CONTENTS PLUS PACKAGING

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

SHIPPER NAME Safety-Kleen Systems % Philip Serv.	SIGNATURE X	SHIPMENT DATE	MONTH 10 DAY 6 YEAR 98
TRANSPORTER NAME 1 Altom Transport, Inc.	SIGNATURE X R Scott Collins	DATE OF RECEIPT	MONTH 10 DAY 12 YEAR 98
TRANSPORTER NAME 2	SIGNATURE X		MONTH DAY YEAR
TRANSPORTER NAME 3	SIGNATURE X		MONTH DAY YEAR
RECEIVING FACILITY Safety-Kleen	SIGNATURE X		MONTH DAY YEAR

FORM 1380 (6/97)

SHIPPER

OIL SERVICES / WASTE TRACKING

400400-001

DOCUMENT NO.
392760

Safety-Kleen Syst(s % zPHilip Serv. (
1330 W. 8th Street
KCMO 64101

PHONE NUMBER 800-821-4302 | US EPA ID NO. MOD000610766 | STATE EPA ID NO.

1	Altom Transport Inc	4946 S Cicero Ave Chicago, IL 60638	ILD9847743331
2			
3			

Safety-Kleen
601 Riley Road
East Chicago, IN 46312

US EPA ID NUMBER IND077042034
STATE EPA ID NUMBER
PHONE NUMBER 800-327-8903

IN EVENT OF EMERGENCY CALL
1-800-468-1760 (24 hours)

	WASTE OIL (NOT USDOT REGULATED)					
	USED ANTIFREEZE (NO USDOT OR USEPA REGULATED)					
	USED OIL (NOT USDOT REGULATED)	001	t/t	6000	gals	850-

OIL SERVICES CERTIFICATION NO. 1

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM A BRANCH TO A PROCESSING FACILITY

I certify that to the best of my knowledge, the used oil contained in this shipment does not contain regulated hazardous waste as defined in 40 CFR 261, and does not require the use of a hazardous waste manifest except in the following states as required by state law: Illinois, Missouri, Michigan, South Carolina, Massachusetts, and New Jersey. The oil has been collected and tested in compliance with 40 CFR 266 and applicable state laws using either:

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DMS
SHIPPER'S INITIALS

OIL SERVICES CERTIFICATION NO. 2

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM AN INTERMEDIATE STORAGE FACILITY TO A PROCESSING FACILITY

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SHIPPER'S INITIALS

Emergency contact # 800-468-1760

INTERMODAL CERTIFICATION GROSS CARGO WEIGHT _____ CONTENTS PLUS PACKAGING

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SHIPPER NAME Safety-Kleen Systems % Philip Serv	SIGNATURE X Dennis M Super	SHIPMENT DATE	MONTH 10	DAY 12	YEAR 98
TRANSPORTER NAME 1 Altom Transport, Inc.	SIGNATURE X Gene Bayer	DATE OF RECEIPT	MONTH 10	DAY 12	YEAR 98
TRANSPORTER NAME 2	SIGNATURE X		MONTH	DAY	YEAR
TRANSPORTER NAME 3	SIGNATURE X		MONTH	DAY	YEAR
RECEIVING FACILITY Safety-Kleen	SIGNATURE X		MONTH	DAY	YEAR

TRUCK-RAIL CAR ID NO

FORM 1380 (6/97)

SHIPPER

OIL SERVICES / WASTE TRACKING

Safety-Kleen Syst(s, Inc % Philip Serv.
1330 W. 8th Street
KCMO 64101

DOCUMENT NO. 392779

400400-

PHONE NUMBER 800-821-4302 816-474-1391

US EPA ID NO. MOD000610766

STATE EPA ID NO.

1	Safety-Kleen (TG), Inc PO Box 11393 Colubmia, SC 29211	SCD987574647
2		
3		

Safety-Kleen
601 Riley Road
East Chicago, IN 46312

US EPA ID NUMBER IND077042034

STATE EPA ID NUMBER

PHONE NUMBER 800-535-5407

IN EVENT OF EMERGENCY CALL
800-468-1760 (24 hours)

	WASTE OIL (NOT USDOT REGULATED)			0		
	USED ANTIFREEZE (NO USDOT OR USEPA REGULATED)			0		
	USED OIL (NOT USDOT REGULATED)	001	t/t	5200	gals	850
				0		

OIL SERVICES CERTIFICATION NO. 1

CERTIFICATE OF USED OIL/ANTIFREEZE CLASSIFICATION FOR SHIPMENT FROM A BRANCH TO A PROCESSING FACILITY

I certify that to the best of my knowledge, the used oil contained in this shipment does not contain regulated hazardous waste as defined in 40 CFR 261, and does not require the use of a hazardous waste manifest except in the following states as required by state law: Illinois, Missouri, Michigan, South Carolina, Massachusetts, and New Jersey. The oil has been collected and tested in compliance with 40 CFR 266 and applicable state laws using either:

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SHIPPER'S INITIALS

OIL SERVICES CERTIFICATION NO. 2

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SHIPPER'S INITIALS

5K-629
5-Kt-553

Emergency contact # 800-468-1760

INTERMODAL CERTIFICATION GROSS CARGO WEIGHT _____ CONTENTS PLUS PACKAGING

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

SHIPPER NAME Safety-Kleen Systems Inc % Philip Serv.	SIGNATURE X	SHIPMENT DATE	MONTH 10	DAY 28	YEAR 98	TRUCK RAIL CAR ID NO
TRANSPORTER NAME Safety-Kleen (TG), Inc.	SIGNATURE X	DATE OF RECEIPT	MONTH 10	DAY 28	YEAR 98	t-55
TRANSPORTER NAME	SIGNATURE X		MONTH	DAY	YEAR	
TRANSPORTER NAME	SIGNATURE X		MONTH	DAY	YEAR	
RECEIVING FACILITY Safety-Kleen	SIGNATURE X		MONTH	DAY	YEAR	

FORM 1360 (6/97)

SHIPPER

[redacted]

[redacted]

JOHN WOOLCOTT
[redacted] N.E. 38TH ST.
[redacted] CITY, MO 64161
[redacted]/453-4321

IS QUOTATION IS EXPRESSLY LIMITED TO E "TERMS OF QUOTATION" ON THE REVERSE DE AND THE FOLLOWING QUOTATION PRO-SAL.

HERITAGE

CORPORATE HEADQUARTERS
HERITAGE ENVIRONMENTAL SERVICES, INC.
7901 WEST MORRIS STREET • INDIANAPOLIS, IN 46231
TELEPHONE 317/243-0811
Internet: http://www.heritage-enviro.com

KANSAS CITY	
QUOTE	[illegible]
156720-1	20680-2
ISSUED	EFFECTIVE
14-OCT-98	13-OCT-98

QUOTATION

WASTE DESCRIPTION COMMON NAME	PRODUCT	PRODUCT TYPE
USED OIL SLUDGE	18	SUPP FUEL BULK

HANDLING CODES

S02, T50

CUSTOMER	GENERATOR
DEFFENBAUGH INDUSTRIES, INCORPORATED 17193 PO BOX 3220 SHAWNEE, KS 66203 ~~DAN TAYLOR~~ SEAN White (913)631-3300	INDUSTRIAL SERVICE CORPORATION 20680 DIVISION OF DEFFENBAUGH INDUSTRIES, INC. 1633 SOUTH MARSH KANSAS CITY, MO 64126 SEAN WHITE MOD073027609

TRANSPORTER	☐ TSD ☐ OIL BURNER
HERITAGE TRANSPORT LLC 8000 7901 WEST MORRIS STREET INDIANAPOLIS, IN 46231 IND058484114	HERITAGE ENVIRONMENTAL SERVICES L 9028 8525 NE 38TH STREET KANSAS CITY, MO 64161 JOHN DILLOW MOD981505555

QUOTATION PROPOSAL

DISPOSAL :	0.6500	PER GAL
FREIGHT :	233.2000	PER LOAD
CUSTOMER DEMURRAGE :	1.0000	PER MINUTE (60 MIN FREE LOADING TIME)
~~EMERGENCY SERVICE :~~	~~135.0000~~	~~%/LOAD~~

HERITAGE IS HEREBY NOTIFYING YOU THAT WE HAVE THE APPROPRIATE PERMIT(S) FOR, AND WILL ACCEPT THE WASTE YOU HAVE BEEN APPROVED TO SHIP. (40 CFR 264.12)

Customer demurrage charges shall not apply in the event of delays caused by Heritage or its agents.

[illegible]

[illegible]ULING SERVICES, CALL

Please provide quote and wastestream numbers to Heritage Customer Service to initiate effic[illegible] service. Any purchase order, release, or shipper number, etc. required by the customer must [illegible] provided when scheduling.

[illegible]NOWLEDGEMENT: Heritage will provide transportation, treatment, recovery, and/or disposal of your waste as quoted above. All work will be performed according to feder[illegible] e, and local regulations. Signature [illegible] below confirms agreement with the waste and DOT descriptions set forth in the wastestream prof[illegible] ched hereto. In the absence of an executed contract, executed acknowledgement copy of quotation form and wastestream profile by generator must be returned [illegible]itage [illegible]ere service can be rendered.

SIGNATURE OF ACCEPTANCE	DATE	PURCHASE ORDER NO.	PURCHASE ORDER EFFECTIVE UNTIL
[illegible]			

INDUSTRIAL SERVICE CORPORATION
SOUTH MARSH
3 CITY, MO 64126
SEAN WHITE

HERITAGE

CORPORATE HEADQUARTERS
HERITAGE ENVIRONMENTAL SERVICES, INC.
7901 WEST MORRIS STREET • INDIANAPOLIS, IN 46231
TELEPHONE 317/243-0811
Internet: http://www.heritage-enviro.com

WASTESTREAM PROFILE

SERVICE LOCATION	
KANSAS CITY	
QUOTE	WASTE CREAM
156720-1	20680-2

WASTE DESCRIPTION COMMON NAME	PRODUCT	PRODUCT TYPE
USED OIL SLUDGE	18	SUPP FUEL BULK
PROCESS GENERATING	**COLOR**	**PHYSICAL STATE AT 70 F**
DECOMMISSIONING OF USED OIL TANK FARM	BLACK	LIQUID

HAZARD TYPE	EPA HAZARD CODES
CHARACTERISTIC	D039
DOT HAZARD CLASS	**EPA FORM CODE**
CLASS 9	TOX. CHARC. TETRACHLOROETHYLENE

DOT DESCRIPTION

RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171

PROCESS MATRIX CODE

IN LABORATORY ANALYSIS OF A REPRESENTATIVE SAMPLE, THE FOLLOWING MAJOR CONSTITUENTS WERE EVALUATED:

PARAMETER	RESULT	UNIT	DET. LIMIT	ALLOWABLE RANGE
TETRACHLOROETHYLENE	< 1	PERCENT		
USED OIL SLUDGE	79	PERCENT		
PH	6.65	STD. UNITS		
FLASH POINT	> 200	DEGREES F		
BOILING POINT	> 100	DEGREES F		
FUEL VALUE	6000-10,00	BTU/LB		
SPECIFIC GRAVITY	1.1-1.3	NA		

...s, oily wastes or other materials shipped to Heritage, which contain detectable levels of PCB's (Polychlorinated Biphenyls) will subject ... ...tor (or other responsible party) to all reasonable costs for proper transport, disposal and or decontamination of all contaminated materials a... ...ment.

...rators of oils, or oily wastes must provide a certification to Heritage that the waste is not contaminated with any constituents other than tho... ...ental to normal use.

...ERATOR WARRANTY: To the best of my knowledge the above is a true, accurate and complete description of the waste material offered for dispos... ...or reclamation.

Attachment A

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
: 1633 South Marsh
: Kansas City, MO 64126
:

REPORT #: 80724005-1

DATE: 8-20-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

PARAMETER	METHOD	DET. LIMIT (mg/L)	CONC. (mg/L)
TCLP - Metals	SW-1311		
Arsenic	SW-6010	0.1	: ND
Barium	SW-6010	0.04	: 0.966
Cadmium	SW-6010	0.005	: 0.0130
Chromium	SW-6010	0.008	: 0.0098
Lead	SW-6010	0.1	: ND
Mercury	SW-7470	0.0003	: ND
Selenium	SW-6010	0.1	: ND
Silver	SW-6010	0.05	: ND

ND = NOT DETECTED

Rodney L. Mann

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
: 1633 South Marsh
: Kansas City, MO 64126
:

REPORT #: 80724005-2

DATE: 8-20-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

(TCLP) VOLATILE ORGANIC COMPOUNDS - SW-846-1311/8260

PARAMETER	DET. LIMIT (mg/L)	CONC. (mg/L)
Benzene	0.0313	0.333
Carbon tetrachloride	0.0313	ND
Chlorobenzene	0.0313	ND
Chloroform	0.0313	ND
1,2-Dichloroethane	0.0313	ND
1,1-Dichloroethylene	0.0313	ND
Methyl ethyl ketone (2-Butanone)	0.125	0.181
Tetrachloroethylene	0.625	8.25
Trichloroethylene	0.0313	0.258
Vinyl chloride	0.0125	0.0130

ND = NOT DETECTED

Rodney L. Mann

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
: 1633 South Marsh
: Kansas City, MO 64126
:

REPORT #: 80724005-4

DATE: 8-20-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

(TCLP) PESTICIDES - SW-846-1311/8080

PARAMETER	DET. LIMIT (mg/L)	CONC. (mg/L)
Chlordane	0.0057	ND
Endrin	0.0023	ND
Heptachlor (and its hydroxide)	0.0011	ND
Lindane	0.0011	ND
Methoxychlor	0.011	ND
Toxaphene	0.011	ND

ND = NOT DETECTED

Rodney L. Mann

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
1633 South Marsh
Kansas City, MO 64126

REPORT #: 80724005-5

DATE: 8-20-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

PARAMETER	METHOD	DET. LIMIT	CONC.
		(mg/L)	(mg/L)
(TCLP) Herbicides	SW-846-1311		
2,4-D	SW-846-8150	0.0028	ND
2,4,5-TP Silvex	SW-846-8150	0.0014	ND

ND = NOT DETECTED
NA = NOT APPLICABLE

Rodney L. Mann

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
1633 South Marsh
Kansas City, MO 64126

REPORT #: 80724005-6

DATE: 8-20-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

PARAMETER	METHOD	DET. LIMIT	CONC.
Flash Point	SW-846-1010	NA	>220 F
pH	SW-846-9045	NA	6.65
Cyanide, Total	EPA 335.3	1 mg/Kg	ND
Sulfide, Reactive	SW-846-7.3.4.2	20 mg/Kg	ND
Heating Value	ASTM D240	100 BTU/LB	7,270 BTU/LB

D = NOT DETECTED
A = NOT APPLICABLE

Rodney L. Mann

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
: 1633 South Marsh
: Kansas City, MO 64126
:

REPORT #: 80724005-7

DATE: 8-20-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

PCBS - SW-846-8080

PARAMETER	DET. LIMIT (: ug/Kg)	CONC. (: ug/Kg)
PCB-1016	: 2,000	: ND
PCB-1221	: 2,000	: ND
PCB-1232	: 2,000	: ND
PCB-1242	: 2,000	: ND
PCB-1248	: 2,000	: ND
PCB-1254	: 2,000	: ND
PCB-1260	: 2,000	: ND

..D = NOT DETECTED

Rodney L. Mann

Pace Analytical

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Tel: 913-599-5665
Fax: 913-599-1759

DATE: 08/18/98
PAGE: 1

LITY ANALYTICAL SERVICES
3 SOUTH MARSH
SAS CITY, MO 64126

Pace Project Number: 6023496
Client Project ID: Sludge Tank

n: Mr. RODNEY MANN
ne: (816)254-5257

id results are reported on a wet weight basis

e Sample No: 602029878 Date Collected: 08/11/98 Matrix: Soil
ent Sample ID: SLUDGE TANK Date Received: 08/11/98

ameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
4S -- VOA							
olatile Organics, TCLP Leach.	Method: EPA 8240				Prep Method: EPA 8240		
Vinyl Chloride	ND	ug/L	100	08/17/98	DJE	75-01-4	
1-Dichloroethene	ND	ug/L	50	08/17/98	DJE	75-35-4	
hl rm	ND	ug/L	200	08/17/98	DJE	67-66-3	
1,2-Dichloroethane	ND	ug/L	50	08/17/98	DJE	107-06-2	
2-Butanone	ND	ug/L	1000	08/17/98	DJE	78-93-3	
Carbon Tetrachloride	ND	ug/L	50	08/17/98	DJE	56-23-5	
Trichloroethene	240	ug/L	50	08/17/98	DJE	79-01-6	
Benzene	540	ug/L	50	08/17/98	DJE	71-43-2	
Tetrachloroethene	3900	ug/L	50	08/17/98	DJE	127-18-4	1
Chlorobenzene	ND	ug/L	50	08/17/98	DJE	108-90-7	
1,2-Dichloroethane-d4 (S)	97	%		08/17/98	DJE	17060-07-0	
Toluene-d8 (S)	96	%		08/17/98	DJE	2037-26-5	
4-Bromofluorobenzene (S)	87	%		08/17/98	DJE	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Quality Analytical Services

1633 S. Marsh • Box 266426 • Kansas City, MO 64126 • (816) 254-5257

SERVICE TO: Industrial Service Corporation
: 1633 South Marsh
: Kansas City, MO 64126
:

REPORT #: 80724005-3

DATE: 8-31-98

ATTN: Brent Nickel

QAS #: 80724005
DATE SAMPLED: 7-24-98
SAMPLE IDENTIFICATION: Sludge - Tank Sludge

DATE RECEIVED: 7-24-98
SAMPLED BY: Jason Davis

(TCLP) SEMI-VOLATILE ORGANIC COMPOUNDS - SW-846-1311/8270

PARAMETER	DET. LIMIT (mg/L)	CONC. (mg/L)
o-Cresol (2-Methylphenol)	0.02	0.264
m-Cresol (3-Methylphenol)	0.02	*
p-Cresol (4-Methylphenol)	0.02	0.430
Cresol (Total)	0.02	0.694
1,4-Dichlorobenzene	0.02	ND
2,4-Dinitrotoluene	0.02	ND
Hexachlorobenzene	0.02	ND
Hexachloro-1,3-butadiene	0.02	ND
Hexachloroethane	0.02	ND
Nitrobenzene	0.02	ND
Pentachlorophenol	0.1	ND
Pyridine	4.0	ND
2,4,5-Trichlorophenol	0.02	ND
2,4,6-Trichlorophenol	0.02	ND

* 3-Methylphenol & 4-Methylphenol coelute.

ND = NOT DETECTED

Rodney L. Mann

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE			

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD073027600 Manifest Document No. 10238
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203
4. Generator's Phone (816) 631-3300

A. Missouri Manifest Document Number 001813 [redacted] 0238
[redacted] Parish [redacted] KS 66126
[redacted] 1464
D. [redacted] Phone (317)381-6848
E. [redacted]
F. [redacted]
G. State Facility's ID RR-0238
H. Facility's Phone (816)453-4321

5. Transporter 1 Company Name
HERITAGE TRANSPORT LLC
6. US EPA ID Number IND058484111

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161
10. US EPA ID Number MOD981505556

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	04900	G	EPA WASTE CODE D013 STATE NONE
b.					EPA WASTE CODE / STATE
c.					EPA WASTE CODE / STATE
d.					EPA WASTE CODE / STATE

J. Additional Descriptions for Materials Listed Above
a. A. 20680-2 Spec Grav = 1.0
b.
c.
d.

K. HANDLING CODE (FACILITY USE ONLY)

	INTERIM	FINAL	COMMENTS
a.	S02	T50	Blending
b.	M4		
c.			
d.			

15. Special Handling Instructions and Additional Information
TRAILER# 14-13
24 HOUR EMERGENCY PHONE #: 800-654-7470 LICENSE# 539059 IN
Unloaded 4724 gallons

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger Suhr — Signature: Roger Suhr — Month Day Year: 1 0 2 3 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Combs — Signature: James Combs — Date: Month Day Year: 1 0 2 3 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~Roger Suhr~~ RS — Signature: ~~Roger Suhr~~ RS — Date: RS Month Day Year: ~~1 0 2 3~~ 98

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 — Date
Printed/Typed Name: GRANT D. HAWKINS — Signature: Grant Hawkins — Month Day Year: 1 0 2 3 98

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 — PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

HERITAGE

LANDBAN

Roger Suhr Name (please print) Roger Suhr Date 10-23-98

[illegible] materials [illegible] and properly [illegible], described, packaged, marked and labeled and are [illegible] transportation according to the applicable regulations of the Department of Transportation.

			INTL
[illegible] CORPORATION	STATE ID: 001813	[illegible]	
[illegible] INDUSTRIES, INC.	[illegible]	[illegible]	
[illegible]	Phone: [illegible]	DEMURRAGE	
[illegible] 4126	[illegible]	[illegible] RATE	

[illegible]	[illegible]	DRIVER# 1545	ROLLOFF#
[illegible]	Phone: (317)[illegible]	TRACTOR# 404	TRAILER# 14-13

James Combs Name (please print) JAMES COMBS Date 10/23/98

[illegible], I accept this material for transportation in accordance with all applicable regulations.

			INTL
[illegible]	[illegible]	DEMURRAGE	
[illegible]	Phone: (816)[illegible]		
[illegible]	Contact: [illegible]		

Garland Hankins Name (please print) GARLAND D. HANKINS Date 10-23-98

[illegible] facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

[illegible]	Common Name	NCRA Deposit State Manifest	Pg Ln	Ordered Qty Unit	Shipped Quantity Unit	Received Qty in Gal.
[illegible]	USED OIL SLUDGE	Y				
[illegible]	[illegible], WASTE, LIQUID, N.O.S., 9, NA3082, PG III, [illegible] ERG# 171					4,724 Gal.
[illegible]	Tank:	Quote: 156720 Scale:			Gallons:	LBS:

Est Total Miles 526 Act Total Miles _____

Rolloff: Out _____ In _____

CONTAINER TYPES AND/OR QUANTITIES TO BE PICKED [illegible]

[illegible]

[illegible] Date: [illegible]-OCT-1998 - 23-OCT-1998 Actual Date: _____ Actual Time: _____ Demurrage: _____

[illegible] GLOVES, [illegible] GLOVES, R BOOTS, FACE SHLD, POTYVEN SUIT, [illegible]-ORGN CAR.

[illegible] COMPLETE ALL PAPERWORK

[illegible] CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-827-5721

MAIL TO GENERATOR

HAZARDOUS WASTE MANIFEST

[illegible]MENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-834-2436

or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. 1[illegible]

2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
[illegible] SERVICES CORP.
P O BOX [illegible], SHAWNEE, KS 66203

4. Generator's Phone ([illegible]) [illegible]-9300

5. Transporter 1 Company Name
[illegible] TRANSPORT LLC

6. US EPA ID Number
[illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
[illegible] ENVIRONMENTAL SERVICES LLC
[illegible]

10. US EPA ID Number
[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a. [illegible] HAZARDOUS WASTE, LIQUID, [illegible]	001	TT	[illegible]800	G
b.				
c.				

15. Special Handling Instructions and Additional Information
[illegible] PHONE #: 1800-654-7-[illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger Suhr
Signature: [illegible]
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Combs
Signature: [illegible]
Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~Roger Suhr~~
Signature: ~~Roger~~ [illegible]
Date: Month Day Year

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR COPY – PART 6

IMPORTANT

SEE INSTRUCTIONS SHOULD PART 1 & 2 FAIL TO RETURN

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10. PREVIOUS EDITIONS ARE OBSOLETE.

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE.

[illegible] INDUSTRIES, INC
[illegible]
[illegible]

1st Load
#10238

HERITAGE ENVIRONMENTAL SERVICES, LLC
7901 WEST MORRIS STREET INDIANAPOLIS IN 46231
(317)243-0011 http://www.heritage-enviro.com

Signature: Roger [illegible] Name (please print): Roger [illegible] Date: 10-23-98
This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

GRAN MOTIE			INIL
INDUSTRIAL SERVICE CORPORATION	STATE ID: 001313	LINER	
[illegible]	[illegible]	[illegible]	
[illegible] SOUTH [illegible]	Phone: [illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	

[illegible]	[illegible]	DRIVER 1545	[illegible]
[illegible]	Phone: [illegible]	TRACTOR 404	TRAILER 173

Signature: James Combs Name (please print): James Combs Date: 10/23/98
As transporter, I accept this material for transportation in accordance with all applicable regulations.

[illegible]			INIL
[illegible]	[illegible]	[illegible]	
[illegible] SOUTH STREET	Phone: [illegible]		
[illegible]	Contact: [illegible]		

Signature: _____ Name (please print): _____ Date: _____
As receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

[illegible]	[illegible]	Cg	Unloaded Qty Unit	Shipped Quantity Unit	Received Qty Unit
[illegible]					
[illegible]					
[illegible]					

Est Total Miles [illegible] Act Total Miles _____

Unloaded Out _____ In _____

[illegible]

Pickup Date: [illegible] Actual Date: _____ Actual Time: _____ Dispatcher: _____
[illegible]

[illegible] CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-[illegible]

GENERATOR

HESLDR1

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609
Manifest Doc. No.: 10239 State Manifest No.: 001813-0238

(1) Manifest Page/Line Item	(2) Hazardous Waste Code[A] (One per line)	(3) Waste Water[B]	(4) Non-Waste Water[B]	(5) Subcategory (If applicable)[C]	(6) Underlying Constituents?[D] (Circle one)	(7) Applicable Certification[E] (One per line)
1/11a	D039		X	48	(Yes) / No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.
B Must check one, either wastewater or non-wastewater.
C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).
D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.
E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: Roger Suhr Print or Type Name: Roger Suhr
Company/Title: Industrial Service Corp
Date: 10-23-98

[illegible] does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with [illegible]ble law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

Generator Name: Industrial Service Comp.
Manifest Doc. No.: 10238

EPA I.D. No.: MOD073027609
State Manifest No.: 001813-0238

his form for F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents or for F039 leachate only. For each F001-F005 spent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents present. For F001-F005 choose only from constituents in ALL CAPS. For F039 choose from any constituent except those marked with an asterisk. To identify underlying hazardous constituents, choose from any constituent on this form, except fluoride, selenium, sulfide and vanadium, using the treatment standards on the back.

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	A2213*			Carbosulfan*	
	Acenaphthylene			Chlordane (alpha and gamma isomers)	
	Acenaphthene			p-Chloroaniline	
	ACETONE			CHLOROBENZENE	
	Acetonitrile			Chlorobenzilate	
	Acetophenone			2-Chloro-1,3-butadiene	
	2-Acetylaminofluorene			Chlorodibromomethane	
	Acrolein			Chloroethane	
	Acrylamide*			bis(2-Chloroethoxy)methane	
	Acrylonitrile			bis(2-Chloroethyl)ether	
	Aldicarb sulfone*			Chloroform	
	Aldrin			bis(2-Chloroisopropyl)ether	
	4-Aminobiphenyl			p-Chloro-m-cresol	
	Aniline			2-Chloroethyl vinyl ether*	
	Anthracene			Chloromethane (Methyl chloride)	
	Aramite			2-Chloronaphthalene	
	Barban*			2-Chlorophenol	
	Bendiocarb*			3-Chloropropylene	
	Bendiocarb phenol*			Chrysene	
	Benomyl*			O-CRESOL	
	alpha-BHC			M-CRESOL	
	beta-BHC			P-CRESOL	
	delta-BHC			u-Cumenyl methlycarbamate*	
	gamma-BHC			CYCLOHEXANONE	
	BENZENE			1,2-Dibromo-3-chloropropane	
	Benz(a)anthracene			Ethylene dibromide (1,2-Dibromoethane)	
	Benzal chloride*			Dibromomethane	
	Benzo(b)fluoranthene			2,4-D (2,4-Dichlorophenoxyacetic acid)	
	Benzo(k)fluoranthene			o,p'-DDD	
	Benzo(g,h,i)perylene			p,p'-DDD	
	Benzo(a)pyrene			o,p'-DDE	
	Bromodichloromethane			p,p'-DDE	
	Methyl bromide (Bromomethane)			o,p'-DDT	
	4-Bromophenyl phenyl ether			p,p'-DDT	
	N-BUTYL ALCOHOL			Dibenz(a,h)anthracene	
	Butylate*			Dibenz(a,e,)pyrene	
	Butyl benzyl phthalate			m-Dichlorobenzene	
	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)			O-DICHLOROBENZENE	
	Carbaryl*			p-Dichlorobenzene	
	Carbenzadim*			Dichlorodifluoromethane	
	Carbofuran*			1,1-Dichloroethane	
	Carbofuran phenol*			1,2-Dichloroethane	
	CARBON DISULFIDE			1,1-Dichloroethylene	
	CARBON TETRACHLORIDE			trans-1,2-Dichloroethylene	

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	2,4-Dichlorophenol			Hexachlorobenzene	
	2,6-Dichlorophenol			Hexachlorobutadiene	
	1,2-Dichloropropane			Hexachlorocyclopentadiene	
	cis-1,3-Dichloropropylene			HxCDDs (All Hexachlorodibenzo-p-dioxins)	
	trans-1,3-Dichloropropylene			HxCDFs (All Hexachlorodibenzofurans)	
	Dieldrin			Hexachloroethane	
	Diethylene glycol, dicarbamate*			Hexachloropropylene	
	Diethyl phthalate			Indeno (1,2,3,-c,d) pyrene	
	2, 4-Dimethyl phenol			Iodomethane	
	Dimethyl phthalate			ISOBUTYL ALCOHOL	
	Dimetilan*			Isodrin	
	Di-n-butyl phthalate			Isolan*	
	1,4-Dinitrobenzene			Isosafrole	
	4,6-Dinitro-o-cresol			Kepone	
	2,4-Dinitrophenol			Methacrylonitrile	
	2,4-Dinitrotoluene			METHANOL	
	2,6-Dinitrotoluene			Methapyrilene	
	Di-n-octyl phthalate			Methiocarb*	
	p-Dimethylaminoazobenzene*			Methomyl*	
	Di-n-propylnitrosamine			Methoxychlor	
	1,4-Dioxane			3-Methylcholanthrene	
	Diphenylamine			4,4-Methylene bis(2-chloroaniline)	
	Diphenylnitrosamine			METHYLENE CHLORIDE	
	1,2-Diphenylhydrazine			METHYL ETHYL KETONE	
	Disulfoton			METHYL ISOBUTYL KETONE	
	Dithiocarbamates (total)*			Methyl methacrylate	
	Endosulfan I			Methyl methansulfonate	
	Endosulfan II			Methyl parathion	
	Endosulfan sulfate			Metolcarb*	
	Endrin			Mexacarbate*	
	Endrin aldehyde			Molinate*	
	2-ETHOXY ETHANOL*			Naphthalene	
	EPTC*			2-Naphthylamine	
	ETHYL ACETATE			o-Nitroaniline*	
	ETHYL BENZENE			p-Nitroaniline	
	Ethyl cyanide (Propanenitrile)			NITROBENZENE	
	ETHYL ETHER			5-Nitro-o-toluidine	
	bis(2-Ethylhexyl)phthalate			o-Nitrophenol*	
	Ethyl methacrylate			p-Nitrophenol	
	Ethylene oxide			N-Nitrosodiethylamine	
	Famphur			N-Nitrosodimethylamine	
	Fluoroanthene			N-Nitroso-di-n-butylamine	
	Fluorene			N-Nitrosomethylethylamine	
	Formetanate hydrochloride*			N-Nitrosomorpholine	
	Formparanate*			N-Nitrosopiperidine	
	Heptachlor			N-Nitrosopyrrolidine	
	Heptachlor epoxide			Oxamyl*	

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	Parathion			TOLUENE	
	Total PCBs (sum of all PCB isomers, or all Aroclors)			Toxaphene	
	Pebulate*			Triallate*	
	Pentachlorobenzene			Tribromomethane (Bromoform)	
	PeCDDs (All Pentachlorodibenzo-p-dioxins)			2, 4, 6-Tribromophenol	
	PeCDFs (All Pentachlorodibenzofurans)			1,2,4-Trichlorobenzene	
	Pentachloroethane*			1,1,1-TRICHLOROETHANE	
	Pentachloronitrobenzene			1,1,2-TRICHLOROETHANE	
	Pentachlorophenol			TRICHLOROETHYLENE	
	Phenacetin			TRICHLOROMONOFLUOROMETHANE	
	Phenanthrene			2,4,5-Trichlorophenol	
	Phenol			2,4,6-Trichlorophenol	
	o-Phenylenediamine			1,2,3-Trichloropropane	
	Phorate			1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	
	Phthalic acid*			Triethylamine*	
	Phthalic anhydride			tris-(2,3-Dibromopropyl) phosphate	
	Physostigmine*			Vernolate*	
	Physostigmine salicylate*			Vinyl chloride	
	Promecarb*			XYLENES-MIXED ISOMERS	
	Pronamide			Antimony	
	Propham*			Arsenic	
	Propoxur*			Barium	
	Prosulfocarb*			Beryllium	
	Pyrene			Cadmium	
	PYRIDINE			Chromium (Total)	
	Safrole			Cyanides (Total)[1]	
	Silvex (2,4,5-TP)			Cyanides (Amenable)[1]	
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)			Fluoride[2]	
	1,2,4,5-Tetrachlorobenzene			Lead	
	TCDDs (All Tetrachlorodibenzo-p-dioxins)			Mercury - Nonwastewater from Retort	
	TCDFs (All Tetrachlorodibenzofurans)			Mercury - All Others	
	1,1,1,2-Tetrachloroethane			Nickel	
	1,1,2,2-Tetrachloroethane			Selenium[2]	
X	TETRACHLOROETHYLENE	1/11a		Silver	
	2,3,4,6-Tetrachlorophenol			Sulfide[2]	
	Thiodicarb*			Thallium	
	Thiophanate-methyl*			Vanadium[2]	
	Tirpate*				

* Not an F039 constituent

(1) Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-486 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

(2) Fluoride, selenium, sulfide, and vanadium are F039 constituents only and are not underlying hazardous constituents for characteristic wastes.

HERITAGE ENVIRONMENTAL SERVICES, LLC

8525 N.E. 38th Street
Kansas City, MO 64161
Phone: 816/453-4321
800/829-4374
FAX: 816/453-0180
Internet: http://www.heritage-enviro.com

DOCUMENT TRANSMITTAL COVER PAGE

DATE: 2 Nov 98

SENDER: Marcia Fincher
HERITAGE - KANSAS CITY SERVICE CENTER
FAX NUMBER (816) 453-0180

RECEIVER: Jeff Haynes

COMPANY:

FAX #: 631-3996

TOTAL # OF PAGES: 3 (Including Transmittal Cover Page)

COMMENTS: Please have Roger Sulir ? sign the attach LDR form at bottom or have someone sign for Roger. He did sign manifest - copy attached. Please Fax LDR only. phone me at 453-0180

Thank you

The documents accompanying this fax transmission may contain information from Heritage Environmental Services, LLC (Heritage) which is confidential or privileged. The information is intended for the use of the individual or entity to which it is directed. If you are not the intended recipient, be aware that any disclosure, copying, distribution or the use of the contents of the faxed information is prohibited. If you have received this fax in error, please notify us by telephone immediately so that we can arrange for the retrieval of the original documents at no cost to you.

MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-8300	DEPT. OF NATURAL RESOURCES 573-634-8038

Pl... ...nt or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039, Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD073027601 Manifest Document No. 10338
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203
4. Generator's Phone (816) 631-3300

5. Transporter 1 Company Name: HERITAGE TRANSPORT LLC
6. US EPA ID Number: IND058484111

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161
10. US EPA ID Number: MOD981505555

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	04800	G
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above
a. [illegible]
b. [illegible]
c. [illegible]
d. [illegible]

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #: 800-654-7470 TRAILER# 14-13
Unloaded 4724 gallons LICENSE# 539059 IN

16. GENERATOR'S CERTIFICATION. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger Suhr
Signature: Roger Suhr
Month Day Year: 10 23 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JAMES COMBS
Signature: James Combs
Date: Month Day Year: 10 23 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Suhr RS
Signature: Roger Suhr RS
Date: Month Day Year: 10 23 98

19. ...ency Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Date: Month Day Year:

GENERATOR

IS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED

HESLDR1

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Industrial Service Corp. EPA I.D. No.: MOD073027609

No.: 10238 State Manifest No.: 001813- 0238

(1) Page/Line Item	(2) Hazardous Waste Code[A] (One per line)	(3) Waste Water[B]	(4) Non-Waste Water[B]	(5) Subcategory (if applicable)[C]	(6) Underlying Constituents?[D] (Circle one)	(7) Applicable Certification[E] (One per line)
1/11a	D039		X	48	(Yes) / No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.

B Must check one, either wastewater or non-wastewater.

C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).

D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.

E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(3) Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: Roger Sabo Print or Type Name:

Company/Title: Industrial Service Corp.

Date: 10-23-98

Heritage does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with applicable law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

FACSIMILE TRANSMITTAL

DATE: 11/3/98

TO: MARCIA FINCHER

FAX NO.: 453-0180

NO. OF PAGES SENT INCLUDING COVER PAGE: 2

FROM: JEFF HAYNES
DIRECTOR OF OPPORTUNITY DEVELOPMENT

Deffenbaugh Industries, Inc.
P.O. Box 3220
Shawnee, Kansas 66203
Telephone: 913/631-3300
Fax Number: 913/631-3996

CONFIDENTIALITY NOTICE:

The documents accompanying this telecopy transmission contain confidential information belonging to the sender which is legally privileged. The information is intended only for the use of the individual or entity recipient named above. If you are not the intended recipient, you are hereby notified that any disclosure, copying distribution or the taking of any action in reliance on the contents of this telecopied information is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone to arrange for return of the original documents to us.

TRANSMISSION REPORT

TIME : NOV-03-98 15:04
TEL NUMBER : 9136313996
NAME : DEFFENBAUGH IND.

NBR	FILE NBR	DATE	TIME	DURATION	PGS	TO	DEPT NBR	ACCOUNT	MODE	STATUS
191	624	NOV-03	15:03	00/58	02	4530180			EC 502	OK

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET

EMERGENCY RESPONSE	U.S. COAST GUARD		

Please [illegible] or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609 — Manifest Document No.: 10239
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203

4. Generator's Phone (816) 631-3300

A. Missouri Manifest Document Number: 001813 [redacted] 0239

B. [illegible] 1633 South Marsh Kansas City, MO 64126

C. MO. Trans. ID: H-1464

D. Transporter's Phone: (317)381-6848

E. MO. Trans. ID:

F. Transporter's Phone:

G. State Facility's ID: RR-0238

H. Facility's Phone: (816)453-4321

5. Transporter 1 Company Name: HERITAGE TRANSPORT LLC
6. US EPA ID Number: IND058484111

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161

10. US EPA ID Number: MOD981505555

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	05,000 Est	G	EPA WASTE CODE: D039 STATE: NONE
b.					EPA WASTE CODE: STATE:
c.					EPA WASTE CODE: STATE:
					EPA WASTE CODE: STATE:

J. Additional Descriptions for Materials Listed Above
a. ~~A. 20680-2~~ Spec. Grav = 1.0
b.
c.
d.

K. HANDLING CODE (FACILITY USE ONLY)

	INTERIM	FINAL	COMMENTS
a.		T50	Blending
b.			
c.			
d.			

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #:
(913) 631-8181
TRAILER# 534895IN
LICENSE# 1402
Unloaded 4724 gals

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger Suhr — Signature: Roger Suhr — Month Day Year: 10 29 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Anderson — Signature: David Anderson — Date: 10 29 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: GARLAND D HANKINS — Signature: Garland D Hankins — Date: 10 29 98

GENERATOR / TRANSPORTER / FACILITY

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 — PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

[illegible]ING FOR SHIP: 23/240
[illegible]ode: 179972
[illegible]stomer: 17193 DEFFENBAUGH INDUSTRIES, INCO
Contact: DAN TAYLOR (913)631-3300
PO number(s): ISC1020
[illegible](s) : 48-15

HERITAGE

Pg: 1

LANDBAN

HERITAGE ENVIRONMENTAL SERVICES, LLC
7901 WEST MORRIS STREET INDIANAPOLIS IN 46231
(317)243-8811 http://www.heritage-enviro.com

Signature Roger Suhr Name (please print) Roger Suhr Date 10-29-98

This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SEAN WHITE
INDUSTRIAL SERVICE CORPORATION
DIVISION OF DEFFENBAUGH INDUSTRIES, INC.
1633 SOUTH MARSH
KANSAS CITY MO 64126

STATE ID: 001813
EPA ID: MDD073027609
Phone: (816)631-3300
GENERATOR: 20680 XX

		INTL
LINER		
PUMP/HOSE		
DEMURRAGE		
EMER RATE		

TRANSPORTER: 9000
HERITAGE TRANSPORT LLC

EPA ID: IND058494114
Phone: (317)381-6848

DRIVER# 8346 ROLLOFF# —
TRACTOR# 402 TRAILER# 1402

Signature David Anderson Name (please print) David Anderson Date 10-29-98

As transporter, I accept this material for transportation in accordance with all applicable regulations.

TSDF : 9028
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY MO 64161

EPA ID: MDD981505655
Phone: (816)453-4321
Contact: JOHN DILLON

DEMURRAGE | INTL

Signature Garland Hankins Name (please print) GARLAND D. HANKINS Date 10-29-98

As Receiving Facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Wgt Grnd	DOT Haz	Haz Common Name	NRRA Gen/Haz	State Manifest	Pg Lnl	Ordered Qty Unit	Shipped Quantity Unit	Received Qty in GAL
2 10	789857	USED OIL SLUDGE	Y					
NA, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D009) ERG# 171					1	1	5,000 G Est.	4,724 Gal
Bulk Auto# N/A Tank: Quote: 156720 Scale:						Gallons:		Lbs:

Est Total Miles 526 Act Total Miles _____

Roll-Off: Out _____ In _____

CONTAINER TYPES AND/OR QUANTITIES TO BE PICKED UP

Tl 1

Pickup Date: 26-OCT-1998 - 26-OCT-1998 Actual Date: _____ Actual Time: _____ Demurrage: _____
ADD_EQUIP:
PPE: CHEM PRS GLVS,CHEM GLGLS,K BOOTS,FACE SHLD,POTABLE SHIT,CHEM-RESN GAUN
Sal Instrs: COMPLETE ALL PAPERWORK

EMERGENCY CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-627-5221

MAIL TO GENERATOR

HERITAGE

Pg: 1

[illegible]

HERITAGE ENVIRONMENTAL SERVICES, LLC

[illegible]

[illegible] http://www.heritage-environ.com

Signature [illegible] Name (please print) [illegible] Date 10-29-98

[illegible] to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible] 8346	[illegible]
[illegible]	[illegible]	[illegible] 1402	[illegible] 1402

Signature [illegible] Name (please print) [illegible] Date 10-29-98

[illegible] Transporter, I accept this material for transportation in accordance with all applicable regulations.

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	

Signature _____ Name (please print) _____ Date _____

[illegible] facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

[illegible]	[illegible]	[illegible]	Received Qty
[illegible]		[illegible]	
[illegible]		5,000 G Est.	
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

7" pumped from Tank #29 should be 4935 gal.

GENERATOR

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

Print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a.				
b.				
c.				

J. Additional Descriptions
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

19. Discrepancy Indication Space

FACILITY

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. | Date

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR COPY

IMPORTANT

SEE INSTRUCTIONS ON REVERSE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

HESLDR1

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609
Manifest Doc. No.: State Manifest No.: 001813-

(1) Manifest Page/Line Item	(2) Hazardous Waste Code[A] (One per line)	(3) Waste Water[B]	(4) Non-Waste Water[B]	(5) Subcategory (if applicable)[C]	(6) Underlying Constituents?[D] (Circle one)	(7) Applicable Certification[E] (One per line)
1/11a	D039		X	48	(Yes) / No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.
B Must check one, either wastewater or non-wastewater.
C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).
D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.
E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(3) Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: _____ Print or Type Name: _____
Company/Title: _____
Date: _____

[illegible]e does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with applicable law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043
UNDERLYING CONSTITUENTS/F039 LEACHATE
LAND DISPOSAL RESTRICTIONS NOTIFICATION

Generator Name: Industrial Service Corp.
Manifest Doc. No.:

EPA I.D. No.: MOD073027609
State Manifest No.: 001813-

Use this form for F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents or for F039 leachate only. For each F001-F005 spent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents present. For F001-F005 choose only from constituents in ALL CAPS. For F039 choose from any constituent except those marked with an asterisk. To identify underlying hazardous constituents, choose from any constituent on this form, except fluoride, selenium, sulfide and vanadium, using the treatment standards on the back.

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	A2213*			Carbosulfan*	
	Acenaphthylene			Chlordane (alpha and gamma isomers)	
	Acenaphthene			p-Chloroaniline	
	ACETONE			CHLOROBENZENE	
	Acetonitrile			Chlorobenzilate	
	Acetophenone			2-Chloro-1,3-butadiene	
	2-Acetylaminofluorene			Chlorodibromomethane	
	Acrolein			Chloroethane	
	Acrylamide*			bis(2-Chloroethoxy)methane	
	Acrylonitrile			bis(2-Chloroethyl)ether	
	Aldicarb sulfone*			Chloroform	
	Aldrin			bis(2-Chloroisopropyl)ether	
	4-Aminobiphenyl			p-Chloro-m-cresol	
	Aniline			2-Chloroethyl vinyl ether*	
	Anthracene			Chloromethane (Methyl chloride)	
	Aramite			2-Chloronaphthalene	
	Barban*			2-Chlorophenol	
	Bendiocarb*			3-Chloropropylene	
	Bendiocarb phenol*			Chrysene	
	Benomyl*			O-CRESOL	
	alpha-BHC			M-CRESOL	
	beta-BHC			P-CRESOL	
	delta-BHC			u-Cumenyl methlycarbamate*	
	gamma-BHC			CYCLOHEXANONE	
	BENZENE			1,2-Dibromo-3-chloropropane	
	Benz(a)anthracene			Ethylene dibromide (1,2-Dibromoethane)	
	Benzal chloride*			Dibromomethane	
	Benzo(b)fluoranthene			2,4-D (2,4-Dichlorophenoxyacetic acid)	
	Benzo(k)fluoranthene			o,p'-DDD	
	Benzo(g,h,i)perylene			p,p'-DDD	
	Benzo(a)pyrene			o,p'-DDE	
	Bromodichloromethane			p,p'-DDE	
	Methyl bromide (Bromomethane)			o,p'-DDT	
	4-Bromophenyl phenyl ether			p,p'-DDT	
	N-BUTYL ALCOHOL			Dibenz(a,h)anthracene	
	Butylate*			Dibenz(a,e,)pyrene	
	Butyl benzyl phthalate			m-Dichlorobenzene	
	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)			O-DICHLOROBENZENE	
	Carbaryl*			p-Dichlorobenzene	
	Carbenzadim*			Dichlorodifluoromethane	
	Carbofuran*			1,1-Dichloroethane	
	Carbofuran phenol*			1,2-Dichloroethane	
	CARBON DISULFIDE			1,1-Dichloroethylene	
	CARBON TETRACHLORIDE			trans-1,2-Dichloroethylene	

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	2,4-Dichlorophenol			Hexachlorobenzene	
	2,6-Dichlorophenol			Hexachlorobutadiene	
	1,2-Dichloropropane			Hexachlorocyclopentadiene	
	cis-1,3-Dichloropropylene			HxCDDs (All Hexachlorodibenzo-p-dioxins)	
	trans-1,3-Dichloropropylene			HxCDFs (All Hexachlorodibenzofurans)	
	Dieldrin			Hexachloroethane	
	Diethylene glycol, dicarbamate*			Hexachloropropylene	
	Diethyl phthalate			Indeno (1,2,3,-c,d) pyrene	
	2, 4-Dimethyl phenol			Iodomethane	
	Dimethyl phthalate			ISOBUTYL ALCOHOL	
	Dimetilan*			Isodrin	
	Di-n-butyl phthalate			Isolan*	
	1,4-Dinitrobenzene			Isosafrole	
	4,6-Dinitro-o-cresol			Kepone	
	2,4-Dinitrophenol			Methacrylonitrile	
	2,4-Dinitrotoluene			METHANOL	
	2,6-Dinitrotoluene			Methapyrilene	
	Di-n-octyl phthalate			Methiocarb*	
	p-Dimethylaminoazobenzene*			Methomyl*	
	Di-n-propylnitrosamine			Methoxychlor	
	1,4-Dioxane			3-Methylcholanthrene	
	Diphenylamine			4,4-Methylene bis(2-chloroaniline)	
	Diphenylnitrosamine			METHYLENE CHLORIDE	
	1,2-Diphenylhydrazine			METHYL ETHYL KETONE	
	Disulfoton			METHYL ISOBUTYL KETONE	
	Dithiocarbamates (total)*			Methyl methacrylate	
	Endosulfan I			Methyl methansulfonate	
	Endosulfan II			Methyl parathion	
	Endosulfan sulfate			Metolcarb*	
	Endrin			Mexacarbate*	
	Endrin aldehyde			Molinate*	
	2-ETHOXY ETHANOL*			Naphthalene	
	EPTC*			2-Naphthylamine	
	ETHYL ACETATE			o-Nitroaniline*	
	ETHYL BENZENE			p-Nitroaniline	
	Ethyl cyanide (Propanenitrile)			NITROBENZENE	
	ETHYL ETHER			5-Nitro-o-toluidine	
	bis(2-Ethylhexyl)phthalate			o-Nitrophenol*	
	Ethyl methacrylate			p-Nitrophenol	
	Ethylene oxide			N-Nitrosodiethylamine	
	Famphur			N-Nitrosodimethylamine	
	Fluoroanthene			N-Nitroso-di-n-butylamine	
	Fluorene			N-Nitrosomethylethylamine	
	Formetanate hydrochloride*			N-Nitrosomorpholine	
	Formparanate*			N-Nitrosopiperidine	
	Heptachlor			N-Nitrosopyrrolidine	
	Heptachlor epoxide			Oxamyl*	

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043
UNDERLYING CONSTITUENTS/F039 LEACHATE
LAND DISPOSAL RESTRICTIONS NOTIFICATION

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	Parathion			TOLUENE	
	Total PCBs (sum of all PCB isomers, or all Aroclors)			Toxaphene	
	Pebulate*			Triallate*	
	Pentachlorobenzene			Tribromomethane (Bromoform)	
	PeCDDs (All Pentachlorodibenzo-p-dioxins)			2, 4, 6-Tribromophenol	
	PeCDFs (All Pentachlorodibenzofurans)			1,2,4-Trichlorobenzene	
	Pentachloroethane*			1,1,1-TRICHLOROETHANE	
	Pentachloronitrobenzene			1,1,2-TRICHLOROETHANE	
	Pentachlorophenol			TRICHLOROETHYLENE	
	Phenacetin			TRICHLOROMONOFLUOROMETHANE	
	Phenanthrene			2,4,5-Trichlorophenol	
	Phenol			2,4,6-Trichlorophenol	
	o-Phenylenediamine			1,2,3-Trichloropropane	
	Phorate			1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	
	Phthalic acid*			Triethylamine*	
	Phthalic anhydride			tris-(2,3-Dibromopropyl) phosphate	
	Physostigmine*			Vernolate*	
	Physostigmine salicylate*			Vinyl chloride	
	Promecarb*			XYLENES-MIXED ISOMERS	
	Pronamide			Antimony	
	Propham*			Arsenic	
	Propoxur*			Barium	
	Prosulfocarb*			Beryllium	
	Pyrene			Cadmium	
	PYRIDINE			Chromium (Total)	
	Safrole			Cyanides (Total)[1]	
	Silvex (2,4,5-TP)			Cyanides (Amenable)[1]	
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)			Fluoride[2]	
	1,2,4,5-Tetrachlorobenzene			Lead	
	TCDDs (All Tetrachlorodibenzo-p-dioxins)			Mercury - Nonwastewater from Retort	
	TCDFs (All Tetrachlorodibenzofurans)			Mercury - All Others	
	1,1,1,2-Tetrachloroethane			Nickel	
	1,1,2,2-Tetrachloroethane			Selenium[2]	
X	TETRACHLOROETHYLENE	1/11a		Silver	
	2,3,4,6-Tetrachlorophenol			Sulfide[2]	
	Thiodicarb*			Thallium	
	Thiophanate-methyl*			Vanadium[2]	
	Tirpate*				

* Not an F039 constituent

(1) Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-486 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

(2) Fluoride, selenium, sulfide, and vanadium are F039 constituents only and are not underlying hazardous constituents for characteristic wastes.

#2 Lon 0

#10239

10 29 98

7" pumped from Tank #29 should be 4935 gal.

GENERATOR

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

...nt or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. — Manifest Document No. 10239
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 324Y, SHANNEE, KS 66203

4. Generator's Phone (014) 431-3300

5. Transporter 1 Company Name: HERITAGE TRANSPORT LLC
6. US EPA ID Number:

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
[illegible] STREET
KANSAS CITY, MO [illegible]
10. US EPA ID Number:

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	Waste No.
a. [illegible]	001	TT	05,000	[illegible]	EPA WASTE CODE / STATE
b.					EPA WASTE CODE / STATE
c.					EPA WASTE CODE / STATE
					EPA WASTE CODE / STATE

J. Additional Descriptions for Materials Listed Above

HANDLING CODE (FACILITY USE ONLY) — COMMENTS

a. [illegible]
b. [illegible]
c. [illegible]
d. [illegible]

15. Special Handling Instructions and Additional Information
[illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. Or, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: [illegible] — Signature: [illegible] — Month / Day / Year: [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: David Pallereau — Signature: [illegible] — Month / Day / Year: 10 29 99

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month / Day / Year:

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Date
Printed/Typed Name: — Signature: — Month / Day / Year:

GENERATOR

TRANSPORTER

FACILITY

GENERATOR COPY – PART 6

IMPORTANT

SEE INSTRUCTIONS SHOULD PART 1 & 2 FAIL TO RETURN WITHIN 15 DAYS

PA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 — PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST

[illegible]

...nature [illegible signature] Name (please print) [illegible] Date 10-29-[illegible]

...is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[illegible]

[illegible] 8346 [illegible]

...nature [illegible signature] Name (please print) [illegible] Date [illegible]

...transporter, I accept this material for transportation in accordance with all applicable regulations.

[illegible]

______ Name (please print) ______ Date ______

...receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

[illegible] 50096 [illegible]

[illegible]

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609
Manifest Doc. No.: State Manifest No.: 001813-

(1) Manifest Page/Line Item	(2) Hazardous Waste Code[A] (One per line)	(3) Waste Water[B]	(4) Non-Waste Water[B]	(5) Subcategory (if applicable)[C]	(6) Underlying Constituents?[D] (Circle one)	(7) Applicable Certification[E] (One per line)
1/11a	D039		X	48	(Yes) / No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.
B Must check one, either wastewater or non-wastewater.
C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).
D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.
E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: _____ Print or Type Name: _____
Company/Title: _____
Date: _____

He[illegible] does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with [illegible]e law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609
Manifest Doc. No.: State Manifest No.: 001813-

This form for F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents or for F039 leachate only. For each F001-F005 spent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents present. For F001-F005 choose only from constituents in ALL CAPS. For F039 choose from any constituent except those marked with an asterisk. To identify underlying hazardous constituents, choose from any constituent on this form, except fluoride, selenium, sulfide and vanadium, using the treatment standards on the back.

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	A2213*			Carbosulfan*	
	Acenaphthylene			Chlordane (alpha and gamma isomers)	
	Acenaphthene			p-Chloroaniline	
	ACETONE			CHLOROBENZENE	
	Acetonitrile			Chlorobenzilate	
	Acetophenone			2-Chloro-1,3-butadiene	
	2-Acetylaminofluorene			Chlorodibromomethane	
	Acrolein			Chloroethane	
	Acrylamide*			bis(2-Chloroethoxy)methane	
	Acrylonitrile			bis(2-Chloroethyl)ether	
	Aldicarb sulfone*			Chloroform	
	Aldrin			bis(2-Chloroisopropyl)ether	
	4-Aminobiphenyl			p-Chloro-m-cresol	
	Aniline			2-Chloroethyl vinyl ether*	
	Anthracene			Chloromethane (Methyl chloride)	
	Aramite			2-Chloronaphthalene	
	Barban*			2-Chlorophenol	
	Bendiocarb*			3-Chloropropylene	
	Bendiocarb phenol*			Chrysene	
	Benomyl*			O-CRESOL	
	alpha-BHC			M-CRESOL	
	beta-BHC			P-CRESOL	
	delta-BHC			u-Cumenyl methlycarbamate*	
	gamma-BHC			CYCLOHEXANONE	
	BENZENE			1,2-Dibromo-3-chloropropane	
	Benz(a)anthracene			Ethylene dibromide (1,2-Dibromoethane)	
	Benzal chloride*			Dibromomethane	
	Benzo(b)fluoranthene			2,4-D (2,4-Dichlorophenoxyacetic acid)	
	Benzo(k)fluoranthene			o,p'-DDD	
	Benzo(g,h,i)perylene			p,p'-DDD	
	Benzo(a)pyrene			o,p'-DDE	
	Bromodichloromethane			p,p'-DDE	
	Methyl bromide (Bromomethane)			o,p'-DDT	
	4-Bromophenyl phenyl ether			p,p'-DDT	
	N-BUTYL ALCOHOL			Dibenz(a,h)anthracene	
	Butylate*			Dibenz(a,e,)pyrene	
	Butyl benzyl phthalate			m-Dichlorobenzene	
	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)			O-DICHLOROBENZENE	
	Carbaryl*			p-Dichlorobenzene	
	Carbenzadim*			Dichlorodifluoromethane	
	Carbofuran*			1,1-Dichloroethane	
	Carbofuran phenol*			1,2-Dichloroethane	
	CARBON DISULFIDE			1,1-Dichloroethylene	
	CARBON TETRACHLORIDE			trans-1,2-Dichloroethylene	

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	2,4-Dichlorophenol			Hexachlorobenzene	
	2,6-Dichlorophenol			Hexachlorobutadiene	
	1,2-Dichloropropane			Hexachlorocyclopentadiene	
	cis-1,3-Dichloropropylene			HxCDDs (All Hexachlorodibenzo-p-dioxins)	
	trans-1,3-Dichloropropylene			HxCDFs (All Hexachlorodibenzofurans)	
	Dieldrin			Hexachloroethane	
	Diethylene glycol, dicarbamate*			Hexachloropropylene	
	Diethyl phthalate			Indeno (1,2,3,-c,d) pyrene	
	2, 4-Dimethyl phenol			Iodomethane	
	Dimethyl phthalate			ISOBUTYL ALCOHOL	
	Dimetilan*			Isodrin	
	Di-n-butyl phthalate			Isolan*	
	1,4-Dinitrobenzene			Isosafrole	
	4,6-Dinitro-o-cresol			Kepone	
	2,4-Dinitrophenol			Methacrylonitrile	
	2,4-Dinitrotoluene			METHANOL	
	2,6-Dinitrotoluene			Methapyrilene	
	Di-n-octyl phthalate			Methiocarb*	
	p-Dimethylaminoazobenzene*			Methomyl*	
	Di-n-propylnitrosamine			Methoxychlor	
	1,4-Dioxane			3-Methylcholanthrene	
	Diphenylamine			4,4-Methylene bis(2-chloroaniline)	
	Diphenylnitrosamine			METHYLENE CHLORIDE	
	1,2-Diphenylhydrazine			METHYL ETHYL KETONE	
	Disulfoton			METHYL ISOBUTYL KETONE	
	Dithiocarbamates (total)*			Methyl methacrylate	
	Endosulfan I			Methyl methansulfonate	
	Endosulfan II			Methyl parathion	
	Endosulfan sulfate			Metolcarb*	
	Endrin			Mexacarbate*	
	Endrin aldehyde			Molinate*	
	2-ETHOXY ETHANOL*			Naphthalene	
	EPTC*			2-Naphthylamine	
	ETHYL ACETATE			o-Nitroaniline*	
	ETHYL BENZENE			p-Nitroaniline	
	Ethyl cyanide (Propanenitrile)			NITROBENZENE	
	ETHYL ETHER			5-Nitro-o-toluidine	
	bis(2-Ethylhexyl)phthalate			o-Nitrophenol*	
	Ethyl methacrylate			p-Nitrophenol	
	Ethylene oxide			N-Nitrosodiethylamine	
	Famphur			N-Nitrosodimethylamine	
	Fluoroanthene			N-Nitroso-di-n-butylamine	
	Fluorene			N-Nitrosomethylethylamine	
	Formetanate hydrochloride*			N-Nitrosomorpholine	
	Formparanate*			N-Nitrosopiperidine	
	Heptachlor			N-Nitrosopyrrolidine	
	Heptachlor epoxide			Oxamyl*	

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	Parathion			TOLUENE	
	Total PCBs (sum of all PCB isomers, or all Aroclors)			Toxaphene	
	Pebulate*			Triallate*	
	Pentachlorobenzene			Tribromomethane (Bromoform)	
	PeCDDs (All Pentachlorodibenzo-p-dioxins)			2, 4, 6-Tribromophenol	
	PeCDFs (All Pentachlorodibenzofurans)			1,2,4-Trichlorobenzene	
	Pentachloroethane*			1,1,1-TRICHLOROETHANE	
	Pentachloronitrobenzene			1,1,2-TRICHLOROETHANE	
	Pentachlorophenol			TRICHLOROETHYLENE	
	Phenacetin			TRICHLOROMONOFLUOROMETHANE	
	Phenanthrene			2,4,5-Trichlorophenol	
	Phenol			2,4,6-Trichlorophenol	
	o-Phenylenediamine			1,2,3-Trichloropropane	
	Phorate			1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	
	Phthalic acid*			Triethylamine*	
	Phthalic anhydride			tris-(2,3-Dibromopropyl) phosphate	
	Physostigmine*			Vernolate*	
	Physostigmine salicylate*			Vinyl chloride	
	Promecarb*			XYLENES-MIXED ISOMERS	
	Pronamide			Antimony	
	Propham*			Arsenic	
	Propoxur*			Barium	
	Prosulfocarb*			Beryllium	
	Pyrene			Cadmium	
	PYRIDINE			Chromium (Total)	
	Safrole			Cyanides (Total)[1]	
	Silvex (2,4,5-TP)			Cyanides (Amenable)[1]	
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)			Fluoride[2]	
	1,2,4,5-Tetrachlorobenzene			Lead	
	TCDDs (All Tetrachlorodibenzo-p-dioxins)			Mercury - Nonwastewater from Retort	
	TCDFs (All Tetrachlorodibenzofurans)			Mercury - All Others	
	1,1,1,2-Tetrachloroethane			Nickel	
	1,1,2,2-Tetrachloroethane			Selenium[2]	
X	TETRACHLOROETHYLENE	1/11a		Silver	
	2,3,4,6-Tetrachlorophenol			Sulfide[2]	
	Thiodicarb*			Thallium	
	Thiophanate-methyl*			Vanadium[2]	
	Tirpate*				

* Not an F039 constituent

(1) Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-486 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

(2) Fluoride, selenium, sulfide, and vanadium are F039 constituents only and are not underlying hazardous constituents for characteristic wastes.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD	[illegible]	[illegible]

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609 — Manifest Document No.: 10240
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203

4. Generator's Phone (816) 631-3300

A. Missouri Manifest Document Number: 001813 [redacted] 0240
B. [illegible] MARSH KANSAS CITY, MO 64126
C. [illegible] H-1464
D. Transporter's Phone: (317)381-6848
E. [illegible]
F. [illegible]
G. State Facility's ID: RR-0238
H. Facility's Phone: (816)453-4321

5. Transporter 1 Company Name: HERITAGE TRANSPORT LLC
6. US EPA ID Number: IND058484114
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161
10. US EPA ID Number: MOD981505555

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	05400	G	EPA WASTE CODE D039; STATE NONE
b.					EPA WASTE CODE; STATE
c.					EPA WASTE CODE; STATE
					EPA WASTE CODE; STATE

J. Additional Descriptions for Materials Listed Above	K. HANDLING CODE (FACILITY USE ONLY) INTERIM	FINAL	COMMENTS
a. A. 20680-2 Spec. Grav. = 1.0	a. S02	T50	Blending
b.	b.		
c.	c.		
d.	d.		

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #:
800-654-7470
816-833-2885
TRAILER# 1402
LICENSE# IN-534895

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Robert W File — Signature: Robert W File — Month 11 Day 25 Year 98

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: Milton E Gilden — Signature: Milton E Gilden — Month 11 Day 25 Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space
Item 13 - Unloaded 4653 gallons - 10% difference - call Sean White on 12/1/98, MLF

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 — Date
Printed/Typed Name: Matt Carey — Signature: Matt Carey — Month 11 Day 25 Year 98

GENERATOR / TRANSPORTER / FACILITY

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 — PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

Pg: 1

HERITAGE

LANDBAN

HERITAGE ENVIRONMENTAL SERVICES LLC
901 EAST 96TH STREET INDIANAPOLIS IN 46231
317 243-0311 www.heritage-enviro.com

...OR STOP: 23/747
...: 183129
...stomer: 17193 DEFFENBAUGH INDUSTRIES, INCU
...ontact: SEAN WHITE (913)631-3300
...er(s): ISC1020
...n(s) : 48-15

Signature [signature] Name (please print) ROBERT W FILE Date 11-25-98

This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SEAN WHITE
INDUSTRIAL SERVICE CORPORATION
DIVISION OF DEFFENBAUGH INDUSTRIES, INC.
1633 SOUTH MARSH
KANSAS CITY MO 64126

STATE ID: 001813
EPA ID: MUD073027609
Phone: (816)631-3300
GENERATOR: 20680 XX

		INIT
LINER		
PUMP/HOSE		
DEMURRAGE		
EMER RATE		

TRANSPORTER: 8900
HERITAGE TRANSPORT LLC

EPA ID: IND005964114
Phone: (317)381-6840

DRIVER# 1911 ROLLOFF# ____
TRACTOR# 406 TRAILER# 1402

Signature [signature] Name (please print) [illegible] Date 11-25-98

As transporter, I accept this material for transportation in accordance with all applicable regulations.

FACILITY: 9029
HERITAGE ENVIRONMENTAL SERVICES LLC
7825 N. 38TH STREET
KANSAS CITY MO 64161

EPA ID: MUD981505555
Phone: (816)453-4321
Contact: JOHN DILLON

DEMURRAGE ____ INIT

Signature [signature] Name (please print) Matt Larey Date 11-25-98

As receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Hzd Cat	DOT Haz Des	Common Name	NONA Gen/Use	State Manifest	Qty Unit	Ordered Quantity	Shipped Unit	Received Qty in GAL
2 10	787670	USED OIL SLUDGE	1					

DOT : RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171
SP. : NONE
D. IL Auth# N/A Tank: Quote: 156720 Scale: % WATER 55%

II	III	
Gallons:	5400 GALS	LBS: 43,200 4,653

Est Total Miles N/A Act Total Miles ____

Rolloff: Out ____ In ____

CONTAINER TYPES AND/OR QUANTITIES TO BE PICKED UP

TO 1

Pickup Date: 25-NOV-1998 - 25-NOV-1998 Actual Date: ____ Actual Time: ____ Demurrage: ____

PPE: CHEM RES GLVS,CHEM GLGLS,R BOOTS,FACE SHLD,PLTYVEK SUIT,RESP-ORGN CANT

Special Instrs: COMPLETE ALL PAPERWORK

EMERGENCY CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-827-5271

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE

Emergency Response	U.S. COAST GUARD	CHEMTREC	DEPT. OF TRANSP.
	1-800-424-8802	1-800-424-9300	

Print or type (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of ___ | Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address

4. Generator's Phone (816) 931-3300

5. Transporter 1 Company Name | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a.	001	TT	05000	G
b.				
c.				

GENERATOR

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

FACILITY

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. | Date

Printed/Typed Name	Signature	Month	Day	Year

EPA FORM 8700-22 (REV. 9-88) PREVIOUS EDITIONS ARE OBSOLETE. COPY 6 CONTAINS NON-RECYCLED PAPER

GENERATOR COPY – PART 6

IMPORTANT

SEE INSTRUCTIONS (PART 1 & 2 FALL TO RETURN

[illegible] Company [illegible] Page 1

[illegible] Code: [illegible]

Customer: [illegible] REFLEXHANGH INDUSTRIES, INC.

Contact: [illegible]

Phone: [illegible]

[illegible]

3RD LOAD # 10240

HERITAGE ENVIRONMENTAL SERVICES, LLC

[illegible] WEST [illegible] SHEET [illegible] IN [illegible]

[illegible] http://www.heritage-enviro.com

Signature [illegible] Name (please print) [illegible] Date 11-25-98

This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

GRAN MOTOR			INIL
INDUSTRIAL SERVICE CORPORATION	SHIP ID: [illegible]	LINER	
[illegible]	[illegible]	[illegible]	
[illegible]	Phone: [illegible]	[illegible]	
KANSAS CITY MO [illegible]	[illegible]	[illegible]	

[illegible]	[illegible]	[illegible] 1911	[illegible]
HERITAGE TRANSPORT LLC	Phone: [illegible]	[illegible] 400	[illegible] 1302

Signature [illegible] Name (please print) [illegible] Date 11-25-98

Transporter, I accept this material for transportation in accordance with all applicable regulations.

[illegible]	[illegible]	[illegible]	INIL
[illegible]	Phone: [illegible]		
[illegible]	Contact: [illegible]		

Signature _____ Name (please print) _____ Date _____

Receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible] 5400	
[illegible]	[illegible]	[illegible]	[illegible]

Est Total Miles [illegible] Act Total Miles _____

Unitary: [illegible] _____ [illegible] _____

[illegible]

[illegible] Date: [illegible] Actual Date: _____ [illegible] _____ [illegible] _____

[illegible]

[illegible] CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-[illegible]

GENERATOR

HESLDR1

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609

Manifest Doc. No.: 102240 State Manifest No.: 001813- 102240

(1) Manifest Page/Line Item (One per line)	(2) Hazardous Waste Code (One per line)	(3) Waste Code Subcategory	(4) Non-Wastewater Water[3]	(5) Subcategory (If applicable)	Underlying Constituents? (Circle one)	Certification (One per line)
1/11a	D039		X	48	(Yes) No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.

B Must check one, either wastewater or non-wastewater.

C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).

D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.

E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(3) Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: Robert W Fitz Print or Type Name: Robert W Fitz

Company/Title: Site Mgr

11-25-98

Heritage does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with applicable law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

USEPA HAZARDOUS WASTE CODES WITH SUBCATEGORIES

Refer to this table to determine the appropriate subcategory for Column 5 of HESLDR1 or HESLDR2 and to determine whether it is necessary to complete HESLDR3. If the waste code you entered in Column 2 of HESLDR1 or HESLDR2 is not in this table enter "NA" in Columns 5 and 6.

Waste Code	[illegible]	[illegible]	Subcategory
D001	1.1	[illegible]	Ignitable characteristic wastes managed in non-CWA systems (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	1.2	N	Ignitable characteristic wastes managed by incineration, fuels substitution, or organics recovery (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	2	N	Ignitable characteristic wastes managed in CWA Systems (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	3	N	High TOC Ignitable Characteristic Liquids Subcategory (based on 40 CFR 261.21(a)(1)-greater than or equal to 10% total organic carbon) (Note: This subcategory consists of nonwastewaters only)
D002	4	Y	Corrosive characteristic wastes managed in non-CWA systems
	5	N	Corrosive characteristic wastes managed in CWA systems
D003	6	N	Reactive Sulfides Subcategory (based on 40 CFR 261.23(a)(5))
	50	N	Unexploded ordnance and other explosive devices from an emergency response
	7	Y	Explosives Subcategory (based on 40 CFR 261.23(a)(6), (7) and (8))
	8	Y	Other Reactives Subcategory (based on 40 CFR 261.23(a)(1))
	9	Y	Water Reactives Subcategory (based on 40 CFR 261.23(a)(2), (3) and (4)) (Note: This subcategory consists of nonwastewaters only)
	10	N	Reactive Cyanides Subcategory (based on 40 CFR 261.23(a)(5))
D006	11	N	Cadmium Containing Batteries Subcategory (Note: This subcategory consists of nonwastewaters only. For D006 wastes that do not fit this subcategory, enter "NA" in Column 5)
D008	12	N	Lead Acid Batteries Subcategory (Note: This subcategory consists of nonwastewaters only. For D008 wastes that do not fit this subcategory, enter "NA" in Column 5)
D009	13	N	High Mercury-Organic Subcategory (Nonwastewaters ≥260 mg/kg total mercury containing organics that are not incinerator residues)
	14	N	High Mercury-Inorganic Subcategory (Nonwastewaters ≥260 mg/kg total mercury that are inorganic, including incinerator residues and residues from RMERC)
	15.1	N	Low Mercury Subcategory (Nonwastewaters <260 mg/kg total mercury that are residues from RMERC only)
	15.2	N	Low Mercury Subcategory (Nonwastewaters <260 mg/kg total mercury that are not residues from RMERC)
	16	N	All D009 wastewaters
D004-D043	48	Y	TC waste managed in non-CWA system
	49	N	TC waste managed in CWA system
F025	17	N	Light Ends Subcategory
	18	N	Spent Filters/Aids and Desiccants Subcategory
K006	19	N	Anhydrous
	20	N	Hydrated
K069	21	N	Calcium Sulfate (Low Lead) Subcategory
	22	N	Non-Calcium Sulfate (High Lead) Subcategory
K071	23	N	Nonwastewaters residues from RMERC
	24	N	Nonwastewaters not residues from RMERC
	25	N	All K071 wastewaters
K106	26	N	Nonwastewaters ≥260 mg/kg total mercury
	27	N	Nonwastewaters <260 mg/kg total mercury residues from RMERC
	28	N	Nonwastewaters <260 mg/kg total mercury not residues from RMERC
	29	N	All K106 wastewaters
P047	30	N	4,6-Dinitro-o-cresol
	31	N	4,6-Dinitro-o-cresol salts
P065	32	N	Nonwastewaters, regardless of total mercury content, not incinerator residues and not residues from RMERC
	33	N	Nonwastewaters either incinerator residues or residues from RMERC; and ≥260 mg/kg total mercury
	34	N	Nonwastewaters residues from RMERC and <260 mg/kg total mercury
	35	N	Nonwastewaters incinerator residues and <260 mg/kg total mercury
	36	N	All P065 wastewaters
P092	37	N	Nonwastewaters, regardless of total mercury content, not incinerator residues and not residues from RMERC
	38	N	Nonwastewaters either incinerator residues or residues from RMERC; and ≥260 mg/kg total mercury
	39	N	Nonwastewaters residues from RMERC and <260 mg/kg total mercury
	40	N	Nonwastewaters incinerator residues and <260 mg/kg total mercury
	41	N	All P092 wastewaters
U151	42	N	Nonwastewaters ≥260 mg/kg total mercury
	43	N	Nonwastewaters <260 mg/kg total mercury and residues from RMERC
	44	N	Nonwastewaters <260 mg/kg total mercury and not residues from RMERC
	45	N	All U151 wastewaters
U240	46	N	2,4-D
	47	N	2,4-D salts and esters

HERITAGE HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609
Manifest Doc. No.: 10240 State Manifest No.: 001813-10240

e this form for F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents or for F039 leachate only. For each F001-F005 spent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents present. For F001-F005 choose only from constituents in ALL CAPS. For F039 choose from any constituent except those marked with an asterisk. To identify underlying hazardous constituents, choose from any constituent on this form, except fluoride, selenium, sulfide and vanadium, using the treatment standards on the back.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Acenaphthylene			Chlordane (alpha and gamma isomers)	
	Acenaphthene			p-Chloroaniline	
	ACETONE			CHLOROBENZENE	
	Acetonitrile			Chlorobenzilate	
	Acetophenone			2-Chloro-1,3-butadiene	
	2-Acetylaminofluorene			Chlorodibromomethane	
	Acrolein			Chloroethane	
	Acrylamide*			bis(2-Chloroethoxy)methane	
	Acrylonitrile			bis(2-Chloroethyl)ether	
	Aldicarb sulfone*			Chloroform	
	Aldrin			bis(2-Chloroisopropyl)ether	
	4-Aminobiphenyl			p-Chloro-m-cresol	
	Aniline			2-Chloroethyl vinyl ether*	
	Anthracene			Chloromethane (Methyl chloride)	
	Aramite			2-Chloronaphthalene	
	Barban*			2-Chlorophenol	
	Bendiocarb*			3-Chloropropylene	
	Benomyl*			Chrysene	
	alpha-BHC			O-CRESOL	
	beta-BHC			M-CRESOL	
	delta-BHC			P-CRESOL	
	gamma-BHC			m-Cumenyl methlycarbamate*	
	BENZENE			CYCLOHEXANONE	
	Benz(a)anthracene			1,2-Dibromo-3-chloropropane	
	Benzal chloride*			Ethylene dibromide (1,2-Dibromoethane)	
	Benzo(b)fluoranthene			Dibromomethane	
	Benzo(k)fluoranthene			2,4-D (2,4-Dichlorophenoxyacetic acid)	
	Benzo(g,h,i)perylene			o,p'-DDD	
	Benzo(a)pyrene			p,p'-DDD	
	Bromodichloromethane			o,p'-DDE	
	Methyl bromide (Bromomethane)			p,p'-DDE	
	4-Bromophenyl phenyl ether			o,p'-DDT	
	N-BUTYL ALCOHOL			p,p'-DDT	
	Butylate*			Dibenz(a,h)anthracene	
	Butyl benzyl phthalate			Dibenz(a,e,)pyrene	
	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)			m-Dichlorobenzene	
	Carbaryl*			O-DICHLOROBENZENE	
	Carbenzadim*			p-Dichlorobenzene	
	Carbofuran*			Dichlorodifluoromethane	
	Carbofuran phenol*			1,1-Dichloroethane	
	CARBON DISULFIDE			1,2-Dichloroethane	
	CARBON TETRACHLORIDE			1,1-Dichloroethylene	
	Carbosulfan*			trans-1,2-Dichloroethylene	

UNDERLYING HAZARDOUS CONSTITUENT TREATMENT STANDARDS

This table lists the Universal Treatment Standard (UTS) constituents and their wastewater and nonwastewater treatment standards. Use this table to identify the underlying hazardous constituents for D001-D043 wastes treated in non-CWA systems. If a waste contains a constituent on this table at a concentration above the applicable treatment standard, mark the constituent and then indicate the manifest page and line item for that waste on the front of HESLDR3.

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
Acenaphthylene	0.059	3.4	p-Chloroaniline	0.46	16
Acenaphthene	0.059	3.4	Chlorobenzene	0.057	6.0
Acetone	0.28	160	Chlorobenzilate	0.10	NA
Acetonitrile	5.6	38	2-Chloro-1,3-butadiene	0.057	0.28
Acetophenone	0.010	9.7	Chlorodibromomethane	0.057	15
2-Acetylaminofluorene	0.059	140	Chloroethane	0.27	6.0
Acrolein	0.29	NA	bis(2-Chloroethoxy)methane	0.036	7.2
Acrylamide	19	23	bis(2-Chloroethyl)ether	0.033	6.0
Acrylonitrile	0.24	84	Chloroform	0.046	6.0
Aldicarb sulfone	0.056	0.28	bis(2-Chloroisopropyl)ether	0.055	7.2
Aldrin	0.021	0.066	p-Chloro-m-cresol	0.018	14
4-Aminobiphenyl	0.13	NA	2-Chloroethyl vinyl ether	0.062	NA
Aniline	0.81	14	Chloromethane (Methyl chloride)	0.19	30
Anthracene	0.059	3.4	2-Chloronaphthalene	0.055	5.6
Aramite	0.36	NA	2-Chlorophenol	0.044	5.7
Barban	0.056	1.4	3-Chloropropylene	0.036	30
Bendiocarb	0.056	1.4	Chrysene	0.059	3.4
Benomyl	0.056	1.4	o-Cresol	0.11	5.6
alpha-BHC	0.00014	0.066	m-Cresol	0.77	5.6
beta-BHC	0.00014	0.066	p-Cresol	0.77	5.6
delta-BHC	0.023	0.066	m-Cumenyl methlycarbamate	0.056	1.4
gamma-BHC	0.0017	0.066	Cyclohexanone	0.36	0.75 mg/l TCL
Benzene	0.14	10	1,2-Dibromo-3-chloropropane	0.11	15
Benz(a)anthracene	0.059	3.4	Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Benzal chloride	0.055	6.0	Dibromomethane	0.11	15
Benzo(b)fluoranthene	0.11	6.8	2,4-D (2,4-Dichlorophenoxyacetic acid)	0.72	10
Benzo(k)fluoranthene	0.11	6.8	o,p'-DDD	0.023	0.087
Benzo(g,h,i)perylene	0.0055	1.8	p,p'-DDD	0.023	0.087
Benzo(a)pyrene	0.061	3.4	o,p'-DDE	0.031	0.087
Bromodichloromethane	0.35	15	p,p'-DDE	0.031	0.087
Methyl bromide (Bromomethane)	0.11	15	o,p'-DDT	0.0039	0.087
4-Bromophenyl phenyl ether	0.055	15	p,p'-DDT	0.0039	0.087
n-Butyl alcohol	5.6	2.6	Dibenz(a,h)anthracene	0.055	8.2
Butylate	0.042	1.4	Dibenz(a,e,)pyrene	0.061	NA
Butyl benzyl phthalate	0.017	28	m-Dichlorobenzene	0.036	6.0
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	0.066	2.5	o-Dichlorobenzene	0.088	6.0
Carbaryl	0.006	0.14	p-Dichlorobenzene	0.090	6.0
Carbenzadim	0.056	1.4	Dichlorodifluoromethane	0.23	7.2
Carbofuran	0.006	0.14	1,1-Dichloroethane	0.059	6.0
Carbofuran phenol	0.056	1.4	1,2-Dichloroethane	0.21	6.0
Carbon disulfide	3.8	4.8 mg/l TCLP	1,1-Dichloroethylene	0.025	6.0
Carbon tetrachloride	0.057	6.0	trans-1,2-Dichloroethylene	0.054	30
Carbosulfan	0.028	1.4	2,4-Dichlorophenol	0.044	14
Chlordane (alpha and gamma isomers)	0.0033	0.26	2,6-Dichlorophenol	0.044	14

2,4-Dichlorophenol		Hexachlorobutadiene	
2,6-Dichlorophenol		Hexachlorocyclopentadiene	
1,2-Dichloropropane		HxCDDs (All Hexachlorodibenzo-p-dioxins)	
cis-1,3-Dichloropropylene		HxCDFs (All Hexachlorodibenzofurans)	
trans-1,3-Dichloropropylene		Hexachloroethane	
Dieldrin		Hexachloropropylene	
Diethyl phthalate		Indeno (1,2,3,-c,d) pyrene	
2, 4-Dimethyl phenol		Iodomethane	
Dimethyl phthalate		ISOBUTYL ALCOHOL	
Di-n-butyl phthalate		Isodrin	
1,4-Dinitrobenzene		Isosafrole	
4,6-Dinitro-o-cresol		Kepone	
2,4-Dinitrophenol		Methacrylonitrile	
2,4-Dinitrotoluene		METHANOL	
2,6-Dinitrotoluene		Methapyrilene	
Di-n-octyl phthalate		Methiocarb*	
p-Dimethylaminoazobenzene*		Methomyl*	
Di-n-propylnitrosamine		Methoxychlor	
1,4-Dioxane		3-Methylcholanthrene	
Diphenylamine		4,4-Methylene bis(2-chloroaniline)	
Diphenylnitrosamine		METHYLENE CHLORIDE	
1,2-Diphenylhydrazine		METHYL ETHYL KETONE	
Disulfoton		METHYL ISOBUTYL KETONE	
Dithiocarbamates (total)*		Methyl methacrylate	
Endosulfan I		Methyl methansulfonate	
Endosulfan II		Methyl parathion	
Endosulfan sulfate		Metolcarb*	
Endrin		Mexacarbate*	
Endrin aldehyde		Molinate*	
2-ETHOXY ETHANOL*		Naphthalene	
EPTC*		2-Naphthylamine	
ETHYL ACETATE		o-Nitroaniline*	
ETHYL BENZENE		p-Nitroaniline	
Ethyl cyanide (Propanenitrile)		NITROBENZENE	
ETHYL ETHER		5-Nitro-o-toluidine	
bis(2-Ethylhexyl)phthalate		o-Nitrophenol*	
Ethyl methacrylate		p-Nitrophenol	
Ethylene oxide		N-Nitrosodiethylamine	
Famphur		N-Nitrosodimethylamine	
Fluoroanthene		N-Nitroso-di-n-butylamine	
Fluorene		N-Nitrosomethylethylamine	
Formetanate hydrochloride*		N-Nitrosomorpholine	
Heptachlor		N-Nitrosopiperidine	
Heptachlor epoxide		N-Nitrosopyrrolidine	
Hexachlorobenzene		Oxamyl*	

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
1,2-Dichloropropane	0.85	18	Hexachloropropylene	0.035	30
cis-1,3-Dichloropropylene	0.036	18	Indeno(1,2,3-cd) pyrene	0.0055	3.4
trans-1,3-Dichloropropylene	0.036	18	Iodomethane	0.19	65
Dieldrin	0.017	0.13	Isobutyl alcohol	5.6	170
Diethyl phthalate	0.20	28	Isodrin	0.021	0.066
2,4-Dimethyl phenol	0.036	14	Isosafrole	0.081	2.6
Dimethyl phthalate	0.047	28	Kepone	0.0011	0.13
Di-n-butyl phthalate	0.057	28	Methacrylonitrile	0.24	84
1,4-Dinitrobenzene	0.32	2.3	Methanol	5.6	0.75 mg/l TCLP
4,6-Dinitro-o-cresol	0.28	160	Methapyrilene	0.081	1.5
2,4-Dinitrophenol	0.12	160	Methiocarb	0.056	1.4
2,4-Dinitrotoluene	0.32	140	Methomyl	0.028	0.14
2,6-Dinitrotoluene	0.55	28	Methoxychlor	0.25	0.18
Di-n-octyl phthalate	0.017	28	3-Methylcholanthrene	0.0055	15
p-Dimethylaminoazobenzene	0.13	NA	4,4-Methylene bis(2-chloroaniline)	0.50	30
Di-n-propylnitrosamine	0.40	14	Methylene chloride	0.089	30
1,4-Dioxane	12.0	170	Methyl ethyl ketone	0.28	36
Diphenylamine	0.92	13	Methyl isobutyl ketone	0.14	33
Diphenylnitrosamine	0.92	13	Methyl methacrylate	0.14	160
1,2-Diphenylhydrazine	0.087	NA	Methyl methansulfonate	0.018	NA
Disulfoton	0.017	6.2	Methyl parathion	0.014	4.6
Dithiocarbamates (total)	0.028	28	Metolcarb	0.056	1.4
Endosulfan I	0.023	0.066	Mexacarbate	0.056	1.4
Endosulfan II	0.029	0.13	Molinate	0.042	1.4
Endosulfan sulfate	0.029	0.13	Naphthalene	0.059	5.6
Endrin	0.0028	0.13	2-Naphthylamine	0.52	NA
Endrin aldehyde	0.025	0.13	o-Nitroaniline	0.27	14
EPTC	0.042	1.4	p-Nitroaniline	0.028	28
Ethyl acetate	0.34	33	Nitrobenzene	0.068	14
Ethyl benzene	0.057	10	5-Nitro-o-toluidine	0.32	28
Ethyl cyanide (Propanenitrile)	0.24	360	o-Nitrophenol	0.028	13
Ethyl ether	0.12	160	p-Nitrophenol	0.12	29
bis(2-Ethylhexyl)phthalate	0.28	28	N-Nitrosodiethylamine	0.40	28
Ethyl methacrylate	0.14	160	N-Nitrosodimethylamine	0.40	2.3
Ethylene oxide	0.12	NA	N-Nitroso-di-n-butylamine	0.40	17
Famphur	0.017	15	N-Nitrosomethylethylamine	0.40	2.3
Fluoroanthene	0.068	3.4	N-Nitrosomorpholine	0.40	2.3
Fluorene	0.059	3.4	N-Nitrosopiperidine	0.013	35
Formetanate hydrochloride	0.056	1.4	N-Nitrosopyrrolidine	0.013	35
Heptachlor	0.0012	0.066	Oxamyl	0.056	0.28
Heptachlor epoxide	0.016	0.066	Parathion	0.014	4.6
Hexachlorobenzene	0.055	10	Total PCBs (sum of all PCB isomers, or all Aroclors)	0.10	10
Hexachlorobutadiene	0.055	5.6	Pebulate	0.042	1.4
Hexachlorocyclopentadiene	0.057	2.4	Pentachlorobenzene	0.055	10
HxCDDs (All Hexachlorodibenzo-p-dioxins)	0.000063	0.001	PeCDDs (All Pentachlorodibenzo-p-dioxins)	0.000063	0.001
HxCDFs (All Hexachlorodibenzofurans)	0.000063	0.001	PeCDFs (All Pentachlorodibenzofurans)	0.000035	0.001
Hexachloroethane	0.055	30	Pentachloroethane	0.055	6.0

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENT [illegible]001-F005 SPENT SOLVENT/D001-D043
UNDERLYING CONSTITUENTS/LEACHATE
LAND DISPOSAL RESTRICTION NOTIFICATION

	Parathion		Toxaphene	
	Total PCBs (sum of all PCB isomers, or all Aroclors)		Triallate*	
	Pebulate*		Tribromomethane (Bromoform)	
	Pentachlorobenzene		2,4,6-Tribromophenol	
	PeCDDs (All Pentachlorodibenzo-p-dioxins)		1,2,4-Trichlorobenzene	
	PeCDFs (All Pentachlorodibenzofurans)		1,1,1-TRICHLOROETHANE	
	Pentachloroethane*		1,1,2-TRICHLOROETHANE	
	Pentachloronitrobenzene		TRICHLOROETHYLENE	
	Pentachlorophenol		TRICHLOROMONOFLUOROMETHANE	
	Phenacetin		2,4,5-Trichlorophenol	
	Phenanthrene		2,4,6-Trichlorophenol	
	Phenol		1,2,3-Trichloropropane	
	Phorate		1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	
	Phthalic acid*		Triethylamine*	
	Phthalic anhydride		tris-(2,3-Dibromopropyl) phosphate	
	Physostigmine*		Vernolate*	
	Physostigmine salicylate*		Vinyl chloride	
	Promecarb*		XYLENES-MIXED ISOMERS	
	Pronamide		Antimony	
	Propham*		Arsenic	
	Propoxur*		Barium	
	Prosulfocarb*		Beryllium	
	Pyrene		Cadmium	
	PYRIDINE		Chromium (Total)	
	Safrole		Cyanides (Total)[1]	
	Silvex (2,4,5-TP)		Cyanides (Amenable)[1]	
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		Fluoride[2]	
	1,2,4,5-Tetrachlorobenzene		Lead	
	TCDDs (All Tetrachlorodibenzo-p-dioxins)		Mercury - Nonwastewater from Retort	
	TCDFs (All Tetrachlorodibenzofurans)		Mercury - All Others	
	1,1,1,2-Tetrachloroethane		Nickel	
	1,1,2,2-Tetrachloroethane		Selenium[2]	
X	TETRACHLOROETHYLENE	1/11a	Silver	
	2,3,4,6-Tetrachlorophenol		Sulfide[2]	
	Thiodicarb*		Thallium	
	Thiophanate-methyl*		Vanadium[2]	
	TOLUENE			

* Not an F039 constituent

(1) Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-486 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

(2) Fluoride, selenium, sulfide, and vanadium are F039 constituents only and are not underlying hazardous constituents for characteristic wastes.

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
Pentachlorobenzene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pentachlorophenol	0.089	[illegible]	1,2,4-Trichlorobenzene	0.055	19
Phenacetin	0.081	[illegible]	1,1,1-Trichloroethane	0.054	6.0
Phenanthrene	0.059	[illegible]	1,1,2-Trichloroethane	0.054	6.0
Phenol	0.039	[illegible]	Trichloroethylene	0.054	6.0
Phorate	0.021	[illegible]	Trichloromonofluoromethane	0.020	30
Phthalic acid	0.055	[illegible]	2,4,5-Trichlorophenol	0.18	7.4
Phthalic anhydride	0.055	[illegible]	2,4,6-Trichlorophenol	0.035	7.4
Physostigmine	0.056	[illegible]	1,2,3-Trichloropropane	0.85	30
Physostigmine salicylate	0.056	[illegible]	1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30
Promecarb	0.056	[illegible]	Triethylamine	0.081	1.5
Pronamide	0.093	[illegible]	tris-(2,3-Dibromopropyl) phosphate	0.11	0.10
Propham	0.056	[illegible]	Vernolate	0.042	1.4
Propoxur	0.056	[illegible]	Vinyl chloride	0.27	6.0
Prosulfocarb	0.042	[illegible]	Xylenes-mixed isomers	0.32	30
Pyrene	0.067	[illegible]	Antimony	1.9	1.15 mg/l TCLP
Pyridine	0.014	[illegible]	Arsenic	1.4	5.0 mg/l TCLP
Safrole	0.081	[illegible]	Barium	1.2	21 mg/l TCLP
Silvex (2,4,5-TP)	0.72	[illegible]	Beryllium	0.82	1.22 mg/l TCLP
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.72	[illegible]	Cadmium	0.69	0.11 mg/l TCLP
1,2,4,5-Tetrachlorobenzene	0.055	[illegible]	Chromium (Total)	2.77	0.60 mg/l TCLP
TCDDs (All Tetrachlorodibenzo-p-dioxins)	0.000063	0.001	Cyanides (Total)[1]	1.2	590
TCDFs (All Tetrachlorodibenzofurans)	0.000063	0.001	Cyanides (Amenable)[1]	0.86	30
1,1,1,2-Tetrachloroethane	0.057	6.0	Lead	0.69	0.75 mg/l TCLP
1,1,2,2-Tetrachloroethane	0.057	6.0	Mercury - Nonwastewater from Retort	NA	0.20 mg/l TCLP
Tetrachloroethylene	0.056	6.0	Mercury - All Others	0.15	0.025 mg/l TCL
2,3,4,6-Tetrachlorophenol	0.030	7.4	Nickel	3.98	11 mg/l TCLP
Thiodicarb	0.019	1.4	Silver	0.43	0.14 mg/l TCLP
Thiophanate-methyl	0.056	1.4	Thallium	1.4	0.20 mg/l TCLP
TOLUENE	0.080	10			
Toxaphene	0.0095	2.6			
Triallate	0.042	1.4			
Tribromomethane (Bromoform)	0.63	15			

[1] Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-846 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

NOTE: NA means not applicable.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM. REC. 1-800-424-9300	DEPT. OF NATURAL RESOURCES

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609 — Manifest Document No.: 10241
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203

4. Generator's Phone (816) 631-3300

A. Missouri Manifest Document Number: 001818[redacted]0241
B. U.S.I. (Gen. Site Address): 1633 South Marsh, Kansas City, MO 64126
C. MO. Trans. ID: H-1464
D. Transporter's Phone: (317)381-6848
E. MO. Trans. ID:
F. Transporter's Phone:
G. State Facility's ID: RR-0238
H. Facility's Phone: (816)453-4321

5. Transporter 1 Company Name: HERITAGE TRANSPORT LLC
6. US EPA ID Number: IND058484114

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161

10. US EPA ID Number: MOD981505555

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	05400	G	EPA WASTE CODE D039; STATE NONE
b.					EPA WASTE CODE; STATE
c.					EPA WASTE CODE; STATE
					EPA WASTE CODE; STATE

GENERATOR

J. Additional Descriptions for Materials Listed Above
a. A. 20680-2 Spec. Grav. = 1.0
b.
c.
d.

K. HANDLING CODE (FACILITY USE ONLY)

	INTERIM	FINAL	COMMENTS
a.	S02	T50	Blending
b.			
c.			
d.			

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #: 913-631-8181
TRAILER# 1402
LICENSE# IN 534895

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger W. Suhr — Signature: Roger W. Suhr — Month 11 Day 30 Year 98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: M. HON E. Gr. [illegible] — Signature: [illegible] — Month 11 Day 30 Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 — Date
Printed/Typed Name: GARLAND D HANKINS — Signature: Garland Hankins — Month 11 Day 30 Year 98

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 — PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

...DING FOR STOP: 237243
... Code: 183235
Customer: 17193 DEFFENBAUGH INDUSTRIES, INCO
Contact: SEAN WHITE (913)631-3300
... number(s): ISC1020
...s) : 48-15

HERITAGE

Pg: 1

LANDBAN

HERITAGE ENVIRONMENTAL SERVICES LLC
7901 WEST MORRIS STREET INDIANAPOLIS IN 46231
(317)243-0811 http://www.heritage-enviro.com

Signature Roger W. Suhr Name (please print) Roger W. Suhr Date 11-30-98
This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SEAN WHITE
INDUSTRIAL SERVICE CORPORATION
DIVISION OF DEFFENBAUGH INDUSTRIES, INC.
1633 SOUTH MARSH
KANSAS CITY MO 64126

STATE ID: 001813
EPA ID: MOD073027609
Phone: (816)631-3300
GENERATOR: 20680 XX

INTL
LINER
PUMP/HOSE
DEMURRAGE
EMER RATE

TRANSPORTER: 8000
HERITAGE TRANSPORT LLC

EPA ID: IND058484114
Phone: (317)381-6848

DRIVER# 1911 ROLLOFF#
TRACTOR# 406 TRAILER# 1402

Signature Milton E. Gridley Name (please print) MILTON E GRIDLEY Date 11-30-98
As transporter, I accept this material for transportation in accordance with all applicable regulations.

CODE: 9028
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY MO 64161

EPA ID: MOD981505555
Phone: (816)453-4321
Contact: JOHN DILLOW

INTL
DEMURRAGE

Signature Garland D Hankins Name (please print) GARLAND D HANKINS Date 11-30-98
As the receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Item	Prod	HES Doc	Common Name	RCRA	GenDoc	State Manifest	Pg Ln	Ordered Qty	Unit	Shipped Quantity	Unit	Received Qty in GAL
2	18	788010	USED OIL SLUDGE	Y								

DOT : RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171
... 1 D039
... IL Auth# N/A Tank: Quote: 156720 Scale: % WATER 58%

1 TT
Gallons:

5,400 gal
43,840 lbs
LBS:

Est Total Miles 526 Act Total Miles

Rolloff: Out In

CONTAINER TYPES AND/OR QUANTITIES TO BE PICKED UP

TT 1

Pickup Date: 30-NOV-1998 - 30-NOV-1998 Actual Date: Actual Time: Demurrage:
ADDL_EQUIP:
PPE: CHEM RES GLVS,CHEM GLGLS,R BOOTS,FACE SHLD,PCTYVEK SUIT,RESP-ORGN CART
Spl Instrs: COMPLETE ALL PAPERWORK

EMERGENCY CHEMICAL ASSIASTANCE TELEPHONE NUMBER: 1-800-827-5221

MAIL TO GENERATOR

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176, Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT OF NATURAL RESOURCES 573-634-2436

Print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page ___ of ___

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address

4. Generator's Phone (816) 631-3800

5. Transporter 1 Company Name | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))

	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a.				
b.				
c.				

15. Special Handling Instructions and Additional Information

913-631-8181

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger W. Suhr | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. | Date

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR COPY – PART 6

IMPORTANT

SEE INSTRUCTIONS SHOULD PART 1 & 2 FAIL TO RETURN

FORM 8700-22 (REV. 9-96) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER, WHICH INCLUDES NOT LESS THAN 20% POST-CONSUMER WASTE

4th Load
#10241

[redacted]

[illegible] Name (please print): Roger W. Suhr Date: 11-30-18

[illegible] that the materials listed below are properly classified, described, packaged, marked and labeled and are [illegible] for transportation according to the applicable regulations of the Department of Transportation.

[illegible]

[illegible] Name (please print): [illegible]

[illegible] this material for transportation in accordance with all applicable regulations.

[illegible]

[illegible] Name (please print): [illegible]

[illegible]

[illegible]

[redacted]

Page 1

Contact: [illegible] (317) 631-3300

number(s): IDC1020 /

[illegible]

HERITAGE ENVIRONMENTAL SERVICES, LLC
7901 WEST BRIGHTS STREET INDIANAPOLIS IN 46231
(317)243-0811 http://www.heritage-enviro.com

Signature: Roger W. Sahr Name (please print): Roger W. Sahr Date: 11-30-93

This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Gen Mail:			Unit
INDUSTRIAL SERVICE CORPORATION	State ID: CC1513	LINER	
[illegible]	EPA ID: [illegible]	PUMP/HOSE	
1653 SOUTH MERIDIAN	Phone: (616)631-3300	DRUMMING	
[illegible]	[illegible]	FLOOR RAKE	

Transporter: [illegible]	EPA ID: [illegible]	DRIVER: 1911	POLICE:
TRACE TRANSPORT LLC	Phone: (317)291-[illegible]	TRACTOR: 426	TRAILER: [illegible]

Signature: [illegible] Name (please print): [illegible] Date: 11-22-93

As transporter, I accept this material for transportation in accordance with all applicable regulations.

Site:			Unit
[illegible]	EPA ID: [illegible]	DRUMMING	
[illegible]	Phone: (616)459-4321		
[illegible]	Contact: [illegible]		

Signature: _____ Name (please print): _____ Date: _____

As receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Final DOT Proper Shipping Name	RCRA Gen/Doc State Manifest	Pg	Unit/Generated/Shipped	Generated On
1) 793010 USED OIL SLUDGE	T		Qty Unit/Quantity/Unit in Gal	
2) NA, NONHAZARDOUS WASTE, LIQUID, N.O.S., 9, NA9000, PG III, (D039) ERG# 171				
Hazardous:				
Hazardous Waste: Yes/No	Quote: [illegible]		Quantity:	Price:

Est Total Miles 52 Act Total Miles _____

Mileage Out _____ In _____

CONTAINER TYPES AND QUANTITIES TO BE PICKED UP

[illegible]

Pickup Date: 30-NOV-1993 - 30-NOV-1993 Actual Date: _____ Actual Time: _____ Driver Sign: _____

Instructions: [illegible]

CHEMICAL EMERGENCY TELEPHONE NUMBER: 1-800-[illegible]

GENERATOR

HESLDR1

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name: Industrial Service Corp. EPA I.D. No.: MOD073027609

Manifest Doc. No.: 10241 State Manifest No.: 001813-10236

(1) Manifest Page/Line Item	(2) Hazardous Waste Code (One per line)	(3) Waste Water	(4) Non-Waste Water[B]	(5) Subcategory (if applicable)[C]	(6) Underlying Constituents? (Circle one)	(7) Applicable Certification (One per line)
1/11a	D039		X	48	Yes / No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.

B Must check one, either wastewater or non-wastewater.

C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).

D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.

E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(3) Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: Roger W. Suhr Print or Type Name: Roger W. Suhr

Company/Title: Industrial Service Corp.

11-30-98

Heritage does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with applicable law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

USEPA HAZARDOUS WASTE CODES WITH SUBCATEGORIES

Refer to this table to determine the appropriate subcategory for Column 5 of HESLDR1 or HESLDR2 and to determine whether it is necessary to complete HESLDR3. If the waste code you entered in Column 2 of HESLDR1 or HESLDR2 is not in this table enter "NA" in Columns 5 and 6.

Waste Code		Underlying Conditions Required?	Subcategory
D001	1.1	Y	Ignitable characteristic wastes managed in non-CWA systems (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	1.2	N	Ignitable characteristic wastes managed by incineration, fuels substitution, or organics recovery (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	2	N	Ignitable characteristic wastes managed in CWA Systems (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	3	N	High TOC Ignitable Characteristic Liquids Subcategory (based on 40 CFR 261.21(a)(1)-greater than or equal to 10% total organic carbon) (Note: This subcategory consists of nonwastewaters only)
D002	4	Y	Corrosive characteristic wastes managed in non-CWA systems
	5	N	Corrosive characteristic wastes managed in CWA systems
D003	6	N	Reactive Sulfides Subcategory (based on 40 CFR 261.23(a)(5))
	50	N	Unexploded ordnance and other explosive devices from an emergency response
	7	Y	Explosives Subcategory (based on 40 CFR 261.23(a)(6), (7) and (8))
	8	Y	Other Reactives Subcategory (based on 40 CFR 261.23(a)(1))
	9	Y	Water Reactives Subcategory (based on 40 CFR 261.23(a)(2), (3) and (4)) (Note: This subcategory consists of nonwastewaters only)
	10	N	Reactive Cyanides Subcategory (based on 40 CFR 261.23(a)(5))
D006	11	N	Cadmium Containing Batteries Subcategory (Note: This subcategory consists of nonwastewaters only. For D006 wastes that do not fit this subcategory, enter "NA" in Column 5)
D008	12	N	Lead Acid Batteries Subcategory (Note: This subcategory consists of nonwastewaters only. For D008 wastes that do not fit this subcategory, enter "NA" in Column 5)
D009	13	N	High Mercury-Organic Subcategory (Nonwastewaters ≥260 mg/kg total mercury containing organics that are not incinerator residues)
	14	N	High Mercury-Inorganic Subcategory (Nonwastewaters ≥260 mg/kg total mercury that are inorganic, including incinerator residues and residues from RMERC)
	15.1	N	Low Mercury Subcategory (Nonwastewaters <260 mg/kg total mercury that are residues from RMERC only)
	15.2	N	Low Mercury Subcategory (Nonwastewaters <260 mg/kg total mercury that are not residues from RMERC)
	16	N	All D009 wastewaters
D004-D043	48	Y	TC waste managed in non-CWA system
	49	N	TC waste managed in CWA system
F025	17	N	Light Ends Subcategory
	18	N	Spent Filters/Aids and Desiccants Subcategory
K006	19	N	Anhydrous
	20	N	Hydrated
K069	21	N	Calcium Sulfate (Low Lead) Subcategory
	22	N	Non-Calcium Sulfate (High Lead) Subcategory
K071	23	N	Nonwastewaters residues from RMERC
	24	N	Nonwastewaters not residues from RMERC
	25	N	All K071 wastewaters
K106	26	N	Nonwastewaters ≥260 mg/kg total mercury
	27	N	Nonwastewaters <260 mg/kg total mercury residues from RMERC
	28	N	Nonwastewaters <260 mg/kg total mercury not residues from RMERC
	29	N	All K106 wastewaters
P047	30	N	4,6-Dinitro-o-cresol
	31	N	4,6-Dinitro-o-cresol salts
P065	32	N	Nonwastewaters, regardless of total mercury content, not incinerator residues and not residues from RMERC
	33	N	Nonwastewaters either incinerator residues or residues from RMERC; and ≥260 mg/kg total mercury
	34	N	Nonwastewaters residues from RMERC and <260 mg/kg total mercury
	35	N	Nonwastewaters incinerator residues and <260 mg/kg total mercury
	36	N	All P065 wastewaters
P092	37	N	Nonwastewaters, regardless of total mercury content, not incinerator residues and not residues from RMERC
	38	N	Nonwastewaters either incinerator residues or residues from RMERC; and ≥260 mg/kg total mercury
	39	N	Nonwastewaters residues from RMERC and <260 mg/kg total mercury
	40	N	Nonwastewaters incinerator residues and <260 mg/kg total mercury
	41	N	All P092 wastewaters
U151	42	N	Nonwastewaters ≥260 mg/kg total mercury
	43	N	Nonwastewaters <260 mg/kg total mercury and residues from RMERC
	44	N	Nonwastewaters <260 mg/kg total mercury and not residues from RMERC
	45	N	All U151 wastewaters
U240	46	N	2,4-D
	47	N	2,4-D salts and esters

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

or Name: Industrial Service Corp. EPA I.D. No.: MOD073027609
t Doc. No.: 10241 State Manifest No.: [illegible] 10241

form [illegible] F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents or for F039 leachate only. For each F001-ent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents present. For F001-F005 only from constituents in ALL CAPS. For F039 choose from any constituent except those marked with an asterisk. To identify underlying hazardous constituents, from any constituent on this form, except fluoride, selenium, [illegible] and vanadium, using the treatment standards on the back.

Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
Acenaphthylene			Chlordane (alpha and gamma isomers)	
Acenaphthene			p-Chloroaniline	
ACETONE			CHLOROBENZENE	
Acetonitrile			Chlorobenzilate	
Acetophenone			2-Chloro-1,3-butadiene	
2-Acetylaminofluorene			Chlorodibromomethane	
Acrolein			Chloroethane	
Acrylamide*			bis(2-Chloroethoxy)methane	
Acrylonitrile			bis(2-Chloroethyl)ether	
Aldicarb sulfone*			Chloroform	
Aldrin			bis(2-Chloroisopropyl)ether	
4-Aminobiphenyl			p-Chloro-m-cresol	
Aniline			2-Chloroethyl vinyl ether*	
Anthracene			Chloromethane (Methyl chloride)	
Aramite			2-Chloronaphthalene	
Barban*			2-Chlorophenol	
Bendiocarb*			3-Chloropropylene	
Benomyl*			Chrysene	
[illegible]pha-BHC			O-CRESOL	
[illegible]ta-BHC			M-CRESOL	
delta-BHC			P-CRESOL	
gamma-BHC			m-Cumenyl methlycarbamate*	
BENZENE			CYCLOHEXANONE	
Benz(a)anthracene			1,2-Dibromo-3-chloropropane	
Benzal chloride*			Ethylene dibromide (1,2-Dibromoethane)	
Benzo(b)fluoranthene			Dibromomethane	
Benzo(k)fluoranthene			2,4-D (2,4-Dichlorophenoxyacetic acid)	
Benzo(g,h,i)perylene			o,p'-DDD	
Benzo(a)pyrene			p,p'-DDD	
Bromodichloromethane			o,p'-DDE	
Methyl bromide (Bromomethane)			p,p'-DDE	
4-Bromophenyl phenyl ether			o,p'-DDT	
N-BUTYL ALCOHOL			p,p'-DDT	
Butylate*			Dibenz(a,h)anthracene	
Butyl benzyl phthalate			Dibenz(a,e,)pyrene	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)			m-Dichlorobenzene	
Carbaryl*			O-DICHLOROBENZENE	
Carbenzadim*			p-Dichlorobenzene	
Carbofuran*			Dichlorodifluoromethane	
Carbofuran phenol*			1,1-Dichloroethane	
CARBON DISULFIDE			1,2-Dichloroethane	
CARBON TETRACHLORIDE			1,1-Dichloroethylene	
Carbosulfan*			trans-1,2-Dichloroethylene	

UNDERLYING HAZARDOUS CONSTITUENT TREATMENT STANDARDS

This table lists the Universal Treatment Standard (UTS) constituents and their wastewater and nonwastewater treatment standards. Use this table to identify the underlying hazardous constituents for D001-D043 wastes treated in non-CWA systems. If a waste contains a constituent on this table at a concentration above the applicable treatment standard, mark the constituent and then indicate the manifest page and line item for that waste on the front of HESLDR3.

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
Acenaphthylene	0.059	3.4	p-Chloroaniline	0.46	16
Acenaphthene	0.059	3.4	Chlorobenzene	0.057	6.0
Acetone	0.28	160	Chlorobenzilate	0.10	NA
Acetonitrile	5.6	38	2-Chloro-1,3-butadiene	0.057	0.28
Acetophenone	0.010	9.7	Chlorodibromomethane	0.057	15
2-Acetylaminofluorene	0.059	140	Chloroethane	0.27	6.0
Acrolein	0.29	NA	bis(2-Chloroethoxy)methane	0.036	7.2
Acrylamide	19	23	bis(2-Chloroethyl)ether	0.033	6.0
Acrylonitrile	0.24	84	Chloroform	0.046	6.0
Aldicarb sulfone	0.056	0.28	bis(2-Chloroisopropyl)ether	0.055	7.2
Aldrin	0.021	0.066	p-Chloro-m-cresol	0.018	14
4-Aminobiphenyl	0.13	NA	2-Chloroethyl vinyl ether	0.062	NA
Aniline	0.81	14	Chloromethane (Methyl chloride)	0.19	30
Anthracene	0.059	3.4	2-Chloronaphthalene	0.055	5.6
Aramite	0.36	NA	2-Chlorophenol	0.044	5.7
Barban	0.056	1.4	3-Chloropropylene	0.036	30
Bendiocarb	0.056	1.4	Chrysene	0.059	3.4
Benomyl	0.056	1.4	o-Cresol	0.11	5.6
alpha-BHC	0.00014	0.066	m-Cresol	0.77	5.6
beta-BHC	0.00014	0.066	p-Cresol	0.77	5.6
delta-BHC	0.023	0.066	m-Cumenyl methlycarbamate	0.056	1.4
gamma-BHC	0.0017	0.066	Cyclohexanone	0.36	0.75 mg/l TCLP
Benzene	0.14	10	1,2-Dibromo-3-chloropropane	0.11	15
Benz(a)anthracene	0.059	3.4	Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Benzal chloride	0.055	6.0	Dibromomethane	0.11	15
Benzo(b)fluoranthene	0.11	6.8	2,4-D (2,4-Dichlorophenoxyacetic acid)	0.72	10
Benzo(k)fluoranthene	0.11	6.8	o,p'-DDD	0.023	0.087
Benzo(g,h,i)perylene	0.0055	1.8	p,p'-DDD	0.023	0.087
Benzo(a)pyrene	0.061	3.4	o,p'-DDE	0.031	0.087
Bromodichloromethane	0.35	15	p,p'-DDE	0.031	0.087
Methyl bromide (Bromomethane)	0.11	15	o,p'-DDT	0.0039	0.087
4-Bromophenyl phenyl ether	0.055	15	p,p'-DDT	0.0039	0.087
n-Butyl alcohol	5.6	2.6	Dibenz(a,h)anthracene	0.055	8.2
Butylate	0.042	1.4	Dibenz(a,e,)pyrene	0.061	NA
Butyl benzyl phthalate	0.017	28	m-Dichlorobenzene	0.036	6.0
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	0.066	2.5	o-Dichlorobenzene	0.088	6.0
Carbaryl	0.006	0.14	p-Dichlorobenzene	0.090	6.0
Carbenzadim	0.056	1.4	Dichlorodifluoromethane	0.23	7.2
Carbofuran	0.006	0.14	1,1-Dichloroethane	0.059	6.0
Carbofuran phenol	0.056	1.4	1,2-Dichloroethane	0.21	6.0
Carbon disulfide	3.8	4.8 mg/l TCLP	1,1-Dichloroethylene	0.025	6.0
Carbon tetrachloride	0.057	6.0	trans-1,2-Dichloroethylene	0.054	30
Carbosulfan	0.028	1.4	2,4-Dichlorophenol	0.044	14
Chlordane (alpha and gamma isomers)	0.0033	0.26	2,6-Dichlorophenol	0.044	14

HERITAGE HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043
UNDERLYING CONSTITUENTS/F039 LEACHATE
LAND DISPOSAL RESTRICTIONS NOTIFICATION

					Page Item
	2,4-Dichlorophenol			Hexachlorobutadiene	
	2,6-Dichlorophenol			Hexachlorocyclopentadiene	
	1,2-Dichloropropene			HxCDDs (All Hexachlorodibenzo-p-dioxins)	
	cis-1,3-Dichloropropylene			HxCDFs (All Hexachlorodibenzofurans)	
	trans-1,3-Dichloropropylene			Hexachloroethane	
	Dieldrin			Hexachloropropylene	
	Diethyl phthalate			Indeno (1,2,3,-c,d) pyrene	
	2, 4-Dimethyl phenol			Iodomethane	
	Dimethyl phthalate			ISOBUTYL ALCOHOL	
	Di-n-butyl phthalate			Isodrin	
	1,4-Dinitrobenzene			Isosafrole	
	4,6-Dinitro-o-cresol			Kepone	
	2,4-Dinitrophenol			Methacrylonitrile	
	2,4-Dinitrotoluene			METHANOL	
	2,6-Dinitrotoluene			Methapyrilene	
	Di-n-octyl phthalate			Methiocarb*	
	p-Dimethylaminoazobenzene*			Methomyl*	
	Di-n-propylnitrosamine			Methoxychlor	
	1,4-Dioxane			3-Methylcholanthrene	
	Diphenylamine			4,4-Methylene bis(2-chloroaniline)	
	Diphenylnitrosamine			METHYLENE CHLORIDE	
	1,2-Diphenylhydrazine			METHYL ETHYL KETONE	
	Disulfoton			METHYL ISOBUTYL KETONE	
	Dithiocarbamates (total)*			Methyl methacrylate	
	Endosulfan I			Methyl methansulfonate	
	Endosulfan II			Methyl parathion	
	Endosulfan sulfate			Metolcarb*	
	Endrin			Mexacarbate*	
	Endrin aldehyde			Molinate*	
	2-ETHOXY ETHANOL*			Naphthalene	
	EPTC*			2-Naphthylamine	
	ETHYL ACETATE			o-Nitroaniline*	
	ETHYL BENZENE			p-Nitroaniline	
	Ethyl cyanide (Propanenitrile)			NITROBENZENE	
	ETHYL ETHER			5-Nitro-o-toluidine	
	bis(2-Ethylhexyl)phthalate			o-Nitrophenol*	
	Ethyl methacrylate			p-Nitrophenol	
	Ethylene oxide			N-Nitrosodiethylamine	
	Famphur			N-Nitrosodimethylamine	
	Fluoroanthene			N-Nitroso-di-n-butylamine	
	Fluorene			N-Nitrosomethylethylamine	
	Formetanate hydrochloride*			N-Nitrosomorpholine	
	Heptachlor			N-Nitrosopiperidine	
	Heptachlor epoxide			N-Nitrosopyrrolidine	
	Hexachlorobenzene			Oxamyl*	

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
2-Dichlo[illegible]pene	0.85	18	Hexachlo[illegible]	0.015	30
a-1,3-Di[illegible]opropylene	0.036	18	Indeno (1,2,3-c,d) pyrene	0.0055	3.4
ans-1,3-D[illegible]hloropropylene	0.036	18	Iodomethane	0.19	65
ieldnn	0.017	0.13	Isobutyl alcohol	5.6	170
hethyl phthalate	0.20	28	Isodrin	0.021	0.066
,4-Dimethyl phenol	0.036	14	Isosafrole	0.081	2.6
Dimethyl phthalate	0.047	28	Kepone	0.0011	0.13
Di-n-butyl phthalate	0.057	28	Methacrylonitrile	0.24	84
,4-Dinitrobenzene	0.32	2.3	Methanol	5.6	0.75 g/l TCLP
,6-Dinitro-o-cresol	0.28	160	Methapyrilene	0.081	1.5
,4-Dinitrophenol	0.12	160	Methiocarb	0.056	1.4
,4-Dinitrotoluene	0.32	140	Methomyl	0.028	0.14
,6-Dinitrotoluene	0.55	28	Methoxychlor	0.25	0.18
Di-n-octyl phthalate	0.017	28	3-Methylcholanthrene	0.0055	15
-Dimethylaminoazobenzene	0.13	NA	4,4-Methylene bis(2-chloroaniline)	0.50	[illegible]
Di-n-propylnitrosamine	0.40	14	Methylene chloride	0.089	[illegible]
1,4-Dioxane	12.0	170	Methyl ethyl ketone	0.28	[illegible]
Diphenylamine	0.92	13	Methyl isobutyl ketone	0.14	33
Diphenylnitrosamine	0.92	13	Methyl methacrylate	0.14	160
1,2-Diphenylhydrazine	0.087	NA	Methyl methansulfonate	0.018	NA
Disulfoton	0.017	6.2	Methyl parathion	0.014	4.6
Dithiocarbamates (total)	0.028	28	Metolcarb	0.056	1.4
Endosulfan I	0.023	0.066	Mexacarbate	0.056	1.4
Endosulfan II	0.029	0.13	Molinate	0.042	1.4
Endosulfan sulfate	0.029	0.13	Naphthalene	0.059	5.6
Endrin	0.0028	0.13	2-Naphthylamine	0.52	NA
Endrin aldehyde	0.025	0.13	o-Nitroaniline	0.27	14
EPTC	0.042	1.4	p-Nitroaniline	0.028	28
Ethyl acetate	0.34	33	Nitrobenzene	0.068	14
Ethyl benzene	0.057	10	5-Nitro-o-toluidine	0.32	28
Ethyl cyanide (Propanenitrile)	0.24	360	o-Nitrophenol	0.028	13
Ethyl ether	0.12	160	p-Nitrophenol	0.12	29
bis(2-Ethylhexyl)phthalate	0.28	28	N-Nitrosodiethylamine	0.40	128
Ethyl methacrylate	0.14	160	N-Nitrosodimethylamine	0.40	2.3
Ethylene oxide	0.12	NA	N-Nitroso-di-n-butylamine	0.40	17
Famphur	0.017	15	N-Nitrosomethylethylamine	0.40	2.3
Fluoroanthene	0.068	3.4	N-Nitrosomorpholine	0.40	2.3
Fluorene	0.059	3.4	N-Nitrosopiperidine	0.013	35
Formetanate hydrochloride	0.056	1.4	N-Nitrosopyrrolidine	0.013	35
Heptachlor	0.0012	0.066	Oxamyl	0.056	0.28
Heptachlor epoxide	0.016	0.066	Parathion	0.014	4.6
Hexachlorobenzene	0.055	10	Total PCBs (sum of all PCB isomers, or all Aroclors)	0.10	10
Hexachlorobutadiene	0.055	5.6	Pebulate	0.042	1.4
Hexachlorocyclopentadiene	0.057	2.4	Pentachlorobenzene	0.055	10
HxCDDs (All Hexachlorodibenzo-p-dioxins)	0.000063	0.001	PeCDDs (All Pentachlorodibenzo-p-dioxins)	0.000063	0.001
HxCDFs (All Hexachlorodibenzofurans)	0.000063	0.001	PeCDFs (All Pentachlorodibenzofurans)	0.000035	0.001
Hexachloroethane	0.055	30	Pentachloroethane	0.055	6.0

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043
UNDERLYING CONSTITUENTS 39 LEACHABLE
LAND DISPOSAL RESTRICTION NOTIFICATION

Parathion		Toxaphene	
Total PCBs (sum of all PCB isomers, or all Aroclors)		Triallate*	
Pebulate*		Tribromomethane (Bromoform)	
Pentachlorobenzene		2, 4, 6-Tribromophenol	
PeCDDs (All Pentachlorodibenzo-p-dioxins)		1,2,4-Trichlorobenzene	
PeCDFs (All Pentachlorodibenzofurans)		1,1,1-TRICHLOROETHANE	
Pentachloroethane*		1,1,2-TRICHLOROETHANE	
Pentachloronitrobenzene		TRICHLOROETHYLENE	
Pentachlorophenol		TRICHLOROMONOFLUOROMETHANE	
Phenacetin		2,4,5-Trichlorophenol	
Phenanthrene		2,4,6-Trichlorophenol	
Phenol		1,2,3-Trichloropropane	
Phorate		1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	
Phthalic acid*		Triethylamine*	
Phthalic anhydride		tris-(2,3-Dibromopropyl) phosphate	
Physostigmine*		Vernolate*	
Physostigmine salicylate*		Vinyl chloride	
Promecarb*		XYLENES-MIXED ISOMERS	
Pronamide		Antimony	
Propham*		Arsenic	
Propoxur*		Barium	
Prosulfocarb*		Beryllium	
Pyrene		Cadmium	
PYRIDINE		Chromium (Total)	
Safrole		Cyanides (Total)[1]	
Silvex (2,4,5-TP)		Cyanides (Amenable)[1]	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		Fluoride[2]	
1,2,4,5-Tetrachlorobenzene		Lead	
TCDDs (All Tetrachlorodibenzo-p-dioxins)		Mercury - Nonwastewater from Retort	
TCDFs (All Tetrachlorodibenzofurans)		Mercury - All Others	
1,1,1,2-Tetrachloroethane		Nickel	
1,1,2,2-Tetrachloroethane		Selenium[2]	
X TETRACHLOROETHYLENE	1/11a	Silver	
2,3,4,6-Tetrachlorophenol		Sulfide[2]	
Thiodicarb*		Thallium	
Thiophanate-methyl*		Vanadium[2]	
TOLUENE			

* Not an F039 constituent

(1) Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-486 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

(2) Fluoride, selenium, sulfide, and vanadium are F039 constituents only and are not underlying hazardous constituents for characteristic wastes.

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
Pentachlorobenzene	0.055	[illegible]	2,4,6-Trichlorophenol	0.035	7.4
Pentachlorophenol	0.089	7.4	1,2,4-Trichlorobenzene	0.055	19
Phenacetin	0.081	[illegible]	1,1,1-Trichloroethane	0.054	6.0
Phenanthrene	0.059	5.6	1,1,2-Trichloroethane	0.054	6.0
Phenol	0.039	6.2	Trichloroethylene	0.054	6.0
Phorate	0.021	4.6	Trichloromonofluoromethane	0.020	30
Phthalic acid	0.055	28	2,4,5-Trichlorophenol	0.18	7.4
Phthalic anhydride	0.055	28	2,4,6-Trichlorophenol	0.035	7.4
Physostigmine	0.056	1.4	1,2,3-Trichloropropane	0.85	30
Physostigmine salicylate	0.056	1.4	1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30
Promecarb	0.056	1.4	Triethylamine	0.081	1.5
Pronamide	0.093	1.5	tris-(2,3-Dibromopropyl) phosphate	0.11	0.10
Propham	0.056	1.4	Vernolate	0.042	1.4
Propoxur	0.056	1.4	Vinyl chloride	0.27	6.0
Prosulfocarb	0.042	1.4	Xylenes-mixed isomers	0.32	30
Pyrene	0.067	8.2	Antimony	1.9	1.15 mg/l TCLP
Pyridine	0.014	16	Arsenic	1.4	5.0 mg/l TCLP
Safrole	0.081	22	Barium	1.2	21 mg/l TCLP
Silvex (2,4,5-TP)	0.72	7.9	Beryllium	0.82	1.22 mg/l TCLP
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.72	7.9	Cadmium	0.69	0.11 mg/l TCLP
1,2,4,5-Tetrachlorobenzene	0.055	14	Chromium (Total)	2.77	0.60 mg/l TCLP
TCDDs (All Tetrachlorodibenzo-p-dioxins)	0.000063	0.001	Cyanides (Total)[1]	1.2	590
TCDFs (All Tetrachlorodibenzofurans)	0.000063	0.001	Cyanides (Amenable)[1]	0.86	30
1,1,1,2-Tetrachloroethane	0.057	6.0	Lead	0.69	0.75 mg/l TCLP
1,1,2,2-Tetrachloroethane	0.057	6.0	Mercury - Nonwastewater from Retort	NA	0.20 mg/l TCLP
Tetrachloroethylene	0.056	6.0	Mercury - All Others	0.15	0.025 mg/l TCLP
2,3,4,6-Tetrachlorophenol	0.030	7.4	Nickel	3.98	11 mg/l TCLP
Thiodicarb	0.019	1.4	Silver	0.43	0.14 mg/l TCLP
Thiophanate-methyl	0.056	1.4	Thallium	1.4	0.20 mg/l TCLP
TOLUENE	0.080	10			
Toxaphene	0.0095	2.6			
Triallate	0.042	1.4			
Tribromomethane (Bromoform)	0.63	15			

[1] Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-846 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

NOTE: NA means not applicable.

"10"

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT OF NATURAL RESOURCES 573-634-2436

Type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M O D 0 7 3 0 2 7 6 0 9 Manifest Document No. 10242

2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203

4. Generator's Phone (816) 631-3300

5. Transporter 1 Company Name
HERITAGE TRANSPORT LLC

6. US EPA ID Number
I N D 0 5 8 4 8 4 1 1 4

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161

10. US EPA ID Number
M O D 9 8 1 5 0 5 5 5 5

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	05400	G
b.				
c.				

J. Additional Descriptions for Materials Listed Above
a. A-5068
b.
c.
d. Sp.Gr. .98

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #:
(913) 631-8181

TRAILER# 1402
LICENSE# 534895 IN.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: Roger W. Suhr
Signature: Roger W. Suhr
Month Day Year: 12 10 1998

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim L. Geider
Signature: Tim L Geider
Date: Month Day Year: 12 10 1998

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
13a - Tried to off-load, but material had solidified on tanker. Off-loading was unsuccessful on 12/4. Re-attempted on 12/7 with other resources and was successful. KMD 12/7/98

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: JEFF LOUDOS
Signature: Jeff Loudos
Date: Month Day Year: 12 07 98

FORM 8700-22 (REV. 9-96) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

MISSOURI DNR FINAL COPY – PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED

Pg: 1

ffp Code: 184190
ustomer: 17193 DEFFENBAUGH INDUSTRIES, INCO
ontact: SEAN WHITE (913)631-3300
O number(s): ISC1020
ocation(s) : 48-15

HERITAGE

LANDBAN

HERITAGE ENVIRONMENTAL SERVICES LLC
7901 WEST MORRIS STREET INDIANAPOLIS IN 46231
(317)243-0811 http://www.heritage-enviro.com

ignature Roger W. Suhr Name (please print) Roger W. Suhr Date 12-4-98
his is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are
proper condition for transportation according to the applicable regulations of the Department of Transportation.

SEAN WHITE
INDUSTRIAL SERVICE CORPORATION
DIVISION OF DEFFENBAUGH INDUSTRIES, INC.
1633 SOUTH MARSH
KANSAS CITY MO 64126

STATE ID: 001813
EPA ID: MOD073027609
Phone: (816)631-3300
GENERATOR: 20680 XX

		INTL
LINER		
PUMP/HOSE		
DEMURRAGE	180	
EMER RATE		

RANSPORTER: 8000
RITAGE TRANSPORT LLC

EPA ID: IND058484114
Phone: (317)381-6848

DRIVER# 1559 ROLLOFF#
TRACTOR# 405 TRAILER# 1402

ignature Tim L. Grider Name (please print) Tim L. GRIDER Date 12/4/98
transporter, I accept this material for transportation in accordance with all applicable regulations.

DF: 9028
RITAGE ENVIRONMENTAL SERVICES LLC
25 NE 38TH STREET
NSAS CITY MO 64161

EPA ID: MOD981505555
Phone: (816)453-4321
Contact: JOHN DILLOW

DEMURRAGE INTL

ignature Jeff Loulos Name (please print) JEFF Loulos Date 12/7/98
ceiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

sm	Prod	HES Doc	Common Name	RCRA	GenDoc	State Manifest	Pg Ln	Ordered Qty Unt	Shipped Quantity Unit	Received Qty in GAL
2	18	789627	USED OIL SLUDGE	Y						

T : RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171 | 1 TT | 5400 gallon
[ ] D039
IL Auth# N/A Tank: Quote: 156720 Scale: % WATER 71% | Gallons: 40360 | LBS:

Est Total Miles 5 Act Total Miles

Rolloff: Out In

CONTAINER TYPES AND/OR QUANTITIES TO BE PICKED UP

TT 1

ckup Date: 04-DEC-1998 - 04-DEC-1998 Actual Date: Actual Time: Demurrage:
OL_EQUIP:
E: CHEM RES GLVS,CHEM GLGLS,R BOOTS,FACE SHLD,PCTYVEK SUIT,RESP-ORGN CART
l Instrs: COMPLETE ALL PAPERWORK

ERGENCY CHEMICAL ASSIASTANCE TELEPHONE NUMBER: 1-800-827-5221

MAIL TO GENERATOR

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176, Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

nt or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. 10242
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
[illegible] SERVICES CORP.
P O BOX 3249 BRANNEE, KS 66203

4. Generator's Phone (816) 631-[illegible]

5. Transporter 1 Company Name: [illegible] Transport Ltd
6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address: [illegible] ENVIRONMENTAL SERVICES LLC [illegible] MAIN STREET [illegible] CITY, MO [illegible]
10. US EPA ID Number: [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a. [illegible]	001	TT	05400	G
b.				
c.				

15. Special Handling Instructions and Additional Information
[illegible] 1402
[illegible] 534795 IN.
(913) 631-8181

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Roger W. Smith	[illegible]	[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name	Signature	Month	Day	Year
Tim L. Geider	[illegible]	1	30	98

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Date

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR COPY - PART 6

IMPORTANT

SEE INSTRUCTIONS SHOULD PART 1 & [illegible]

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

[redacted]

HERITAGE ENVIRONMENTAL SERVICES, LLC
[illegible] WEST MORRIS STREET INDIANAPOLIS IN 46231
(317)243-0611 http://www.heritage-enviro.com

Signature [illegible] Name (please print) Kevin W. Sahr Date 12-4-98

This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SEAN WHITE INDUSTRIAL SERVICE CORPORATION DIVISION OF [illegible] INDUSTRIES, INC. 1630 SOUTH ANSAN KANSAS CITY MO 64126	STATE ID# [illegible] EPA ID# [illegible] Phone: [illegible] Contact: [illegible]	CIN# ____ Manifest ____ DOT# ____ Other Info ____	INR.

Transporter Name HERITAGE TRANSPORT LLC	EPA ID# [illegible] Phone: (317)[illegible]	Truck# 1559 Trailer# 405	Driver# ____ Trailer# 1402

Signature [illegible] Name (please print) TIM L. GRIDER Date 12/4/98

As transporter, I accept this material for transportation in accordance with all applicable regulations.

ID#: 9020 [illegible] INDUSTRIES LLC 25 NE 30TH STREET KANSAS CITY MO 64161	EPA ID# [illegible] Phone: (816)454-6321 Contact: JOHN WILLIAM	Manifest ____	INR.

Signature ____ Name (please print) ____ Date ____

As receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Approved Shipping Name	Hazardous Waste Number	Quantity Shipped	Received Qty.
2.15 [illegible] USED OIL SLUDGE	[illegible]	[illegible]	[illegible]
[illegible] HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA9000, PG III, ([illegible])		[illegible]	[illegible]

Container Size Tank: Quote: [illegible] % WATER

Est Total Miles: ____ Act Total Miles ____

Shipment Date ____ to ____

Emergency Phone Number [illegible]

Title ____

Ship Date: 01-DEC-1998 - 04-DEC-1998 Actual Date: ____ Actual Time ____ Driver ____

Special Instructions: [illegible]

Special Instructions: [illegible]

CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-827-5721

GENERATOR

HESLDR1

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name: Industrial Services Corp. EPA I.D. No.: MOD013624809

Manifest Doc. No.: 110242 State Manifest No.: 001813-0 7412

(1) Waste Description (Line Item Number)	(2) Hazardous Waste Code[A] (One per line)	(3) Waste Water[B]	(4) Non-Waste Water[B]	(5) Subcategory (if applicable)[C]	(6) Underlying Hazardous Constituents[D] (Circle one)	(7) Applicable Certification[E] (One per line)
1/11a	D039		X	48	(Yes) / No / NA	1
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	
					Yes / No / NA	

A To list additional waste codes complete a Heritage LDR Continuation Form (HESLDR2). Complete a Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3) if one or more applicable waste codes are F001, F002, F003, F004, F005, or F039.

B Must check one, either wastewater or non-wastewater.

C Enter "NA" if no subcategory is applicable to the waste code (see back of HESLDR1 or 40 CFR 268.40).

D If "Yes" is circled, complete Heritage Supplemental F001-F005 Spent Solvent/Underlying Constituents/F039 Leachate Form (HESLDR3). For F001-F005 or F039 wastes, circle "NA" and identify F001-F005 or F039 constituents on HESLDR3.

E Choose from list of certifications below and enter number. Enter only one number per line. Enter date waste is subject to prohibition if Certification #3 applies.

(1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

(2) Waste Meets Applicable Treatment Standards - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(3) Waste Subject to Exemption - This waste is subject to an exemption from a prohibition, such as a case-by-case extension, an exemption, or a nationwide capacity variance. (Include date subject to LDR in Column 7)

(4) Waste Treated to Applicable Treatment Standards (choose one):

(4a) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(4b) I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5) Characteristic Waste Treated to Remove Characteristic (choose one):

(5a) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(5b) I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.2(i), have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) Lab Pack Managed According to Alternative Treatment Standard at 40 CFR 268.42(c) (INCIN) - I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

I certify that the information provided on this and any additional pages (HESLDR2; HESLDR3) of this LDR notification is true, accurate and complete.

Authorized Signature: Roger W. Suhr Print or Type Name: Roger W. Suhr

Company/Title: Industrial Service Corp.

12-4-98

Heritage does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with applicable law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document.

USEPA HAZARDOUS WASTE CODES WITH SUBCATEGORIES

Refer to this table to determine the appropriate subcategory for Column 5 of HESLDR1 or HESLDR2 and to determine whether it is necessary to complete HESLDR3. If the waste code you entered in Column 2 of HESLDR1 or HESLDR2 is not in this table enter "NA" in Columns 5 and 6.

Waste Code	[illegible]	[illegible]	Subcategory
D001	1.1	Y	Ignitable characteristic wastes managed in non-CWA systems (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	1.2	N	Ignitable characteristic wastes managed by incineration, fuels substitution, or organics recovery (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	2	N	Ignitable characteristic wastes managed in CWA Systems (except for the 40 CFR 261.21(a)(1) High TOC Subcategory)
	3	N	High TOC Ignitable Characteristic Liquids Subcategory (based on 40 CFR 261.21(a)(1) greater than or equal to 10% total organic carbon) (Note: This subcategory consists of nonwastewaters only)
D002	4	Y	Corrosive characteristic wastes managed in non-CWA systems
	5	N	Corrosive characteristic wastes managed in CWA systems
D003	6	N	Reactive Sulfides Subcategory (based on 40 CFR 261.23(a)(5))
	50	N	Unexploded ordnance and other explosive devices from an emergency response
	7	Y	Explosives Subcategory (based on 40 CFR 261.23(a)(6), (7) and (8))
	8	Y	Other Reactives Subcategory (based on 40 CFR 261.23(a)(1))
	9	Y	Water Reactives Subcategory (based on 40 CFR 261.23(a)(2), (3) and (4)) (Note: This subcategory consists of nonwastewaters only)
	10	N	Reactive Cyanides Subcategory (based on 40 CFR 261.23(a)(5))
D006	11	N	Cadmium Containing Batteries Subcategory (Note: This subcategory consists of nonwastewaters only. For D006 wastes that do not fit this subcategory, enter "NA" in Column 5)
D008	12	N	Lead Acid Batteries Subcategory (Note: This subcategory consists of nonwastewaters only. For D008 wastes that do not fit this subcategory, enter "NA" in Column 5)
D009	13	N	High Mercury-Organic Subcategory (Nonwastewaters ≥260 mg/kg total mercury containing organics that are not incinerator residues)
	14	N	High Mercury-Inorganic Subcategory (Nonwastewaters ≥260 mg/kg total mercury that are inorganic, including incinerator residues and residues from RMERC)
	15.1	N	Low Mercury Subcategory (Nonwastewaters <260 mg/kg total mercury that are residues from RMERC only)
	15.2	N	Low Mercury Subcategory (Nonwastewaters <260 mg/kg total mercury that are not residues from RMERC)
	16	N	All D009 wastewaters
D004-D043	48	Y	TC waste managed in non-CWA system
	49	N	TC waste managed in CWA system
F025	17	N	Light Ends Subcategory
	18	N	Spent Filters/Aids and Desiccants Subcategory
K006	19	N	Anhydrous
	20	N	Hydrated
K069	21	N	Calcium Sulfate (Low Lead) Subcategory
	22	N	Non-Calcium Sulfate (High Lead) Subcategory
K071	23	N	Nonwastewaters residues from RMERC
	24	N	Nonwastewaters not residues from RMERC
	25	N	All K071 wastewaters
K106	26	N	Nonwastewaters ≥260 mg/kg total mercury
	27	N	Nonwastewaters <260 mg/kg total mercury residues from RMERC
	28	N	Nonwastewaters <260 mg/kg total mercury not residues from RMERC
	29	N	All K106 wastewaters
P047	30	N	4,6-Dinitro-o-cresol
	31	N	4,6-Dinitro-o-cresol salts
P065	32	N	Nonwastewaters, regardless of total mercury content, not incinerator residues and not residues from RMERC
	33	N	Nonwastewaters either incinerator residues or residues from RMERC; and ≥260 mg/kg total mercury
	34	N	Nonwastewaters residues from RMERC and <260 mg/kg total mercury
	35	N	Nonwastewaters incinerator residues and <260 mg/kg total mercury
	36	N	All P065 wastewaters
P092	37	N	Nonwastewaters, regardless of total mercury content, not incinerator residues and not residues from RMERC
	38	N	Nonwastewaters either incinerator residues or residues from RMERC; and ≥260 mg/kg total mercury
	39	N	Nonwastewaters residues from RMERC and <260 mg/kg total mercury
	40	N	Nonwastewaters incinerator residues and <260 mg/kg total mercury
	41	N	All P092 wastewaters
U151	42	N	Nonwastewaters ≥260 mg/kg total mercury
	43	N	Nonwastewaters <260 mg/kg total mercury and residues from RMERC
	44	N	Nonwastewaters <260 mg/kg total mercury and not residues from RMERC
	45	N	All U151 wastewaters
U240	46	N	2,4-D
	47	N	2,4-D salts and esters

HESLDR5

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043 UNDERLYING CONSTITUENTS/F039 LEACHATE LAND DISPOSAL RESTRICTIONS NOTIFICATION

Generator Name: Industrial Services Corp.
Manifest Doc. No.: 70242

EPA I.D. No.: MOD073027609
State Manifest No.: 001812-0242

Use this form for F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents or for F039 leachate only. For each F001-F005 spent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents present. For F001-F005 choose only from constituents in ALL CAPS. For F039 choose from any constituent except those marked with an asterisk. To identify underlying hazardous constituents, choose from any constituent on this form, except fluoride, selenium, sulfide and vanadium, using the treatment standards on the back.

	Regulated Constituent (Check all that apply)	Manifest Page/ Line Item		Regulated Constituent (Check all that apply)	Manifest Page/ Line Item
	Acenaphthylene			Chlordane (alpha and gamma isomers)	
	Acenaphthene			p-Chloroaniline	
	ACETONE			CHLOROBENZENE	
	Acetonitrile			Chlorobenzilate	
	Acetophenone			2-Chloro-1,3-butadiene	
	2-Acetylaminofluorene			Chlorodibromomethane	
	Acrolein			Chloroethane	
	Acrylamide*			bis(2-Chloroethoxy)methane	
	Acrylonitrile			bis(2-Chloroethyl)ether	
	Aldicarb sulfone*			Chloroform	
	Aldrin			bis(2-Chloroisopropyl)ether	
	4-Aminobiphenyl			p-Chloro-m-cresol	
	Aniline			2-Chloroethyl vinyl ether*	
	Anthracene			Chloromethane (Methyl chloride)	
	Aramite			2-Chloronaphthalene	
	Barban*			2-Chlorophenol	
	Bendiocarb*			3-Chloropropylene	
	Benomyl*			Chrysene	
	alpha-BHC			O-CRESOL	
	beta-BHC			M-CRESOL	
	delta-BHC			P-CRESOL	
	gamma-BHC			m-Cumenyl methlycarbamate*	
	BENZENE			CYCLOHEXANONE	
	Benz(a)anthracene			1,2-Dibromo-3-chloropropane	
	Benzal chloride*			Ethylene dibromide (1,2-Dibromoethane)	
	Benzo(b)fluoranthene			Dibromomethane	
	Benzo(k)fluoranthene			2,4-D (2,4-Dichlorophenoxyacetic acid)	
	Benzo(g,h,i)perylene			o,p'-DDD	
	Benzo(a)pyrene			p,p'-DDD	
	Bromodichloromethane			o,p'-DDE	
	Methyl bromide (Bromomethane)			p,p'-DDE	
	4-Bromophenyl phenyl ether			o,p'-DDT	
	N-BUTYL ALCOHOL			p,p'-DDT	
	Butylate*			Dibenz(a,h)anthracene	
	Butyl benzyl phthalate			Dibenz(a,e,)pyrene	
	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)			m-Dichlorobenzene	
	Carbaryl*			O-DICHLOROBENZENE	
	Carbenzadim*			p-Dichlorobenzene	
	Carbofuran*			Dichlorodifluoromethane	
	Carbofuran phenol*			1,1-Dichloroethane	
	CARBON DISULFIDE			1,2-Dichloroethane	
	CARBON TETRACHLORIDE			1,1-Dichloroethylene	
	Carbosulfan*			trans-1,2-Dichloroethylene	

UNDERLYING HAZARDOUS CONSTITUENT TREATMENT STANDARDS

This table lists the Universal Treatment Standard (UTS) constituents and their wastewater and nonwastewater treatment standards. Use this table to identify the underlying hazardous constituents for D001-D043 wastes treated in non-CWA systems. If a waste contains a constituent on this table at a concentration above the applicable treatment standard, mark the constituent and then indicate the manifest page and line item for that waste on the front of HESI-DR3.

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
Acenaphthylene	0.059	3.4	p-Chloroaniline	0.46	16
Acenaphthene	0.059	3.4	Chlorobenzene	0.057	6.0
Acetone	0.28	160	Chlorobenzilate	0.10	NA
Acetonitrile	5.6	38	2-Chloro-1,3-butadiene	0.057	0.28
Acetophenone	0.010	9.7	Chlorodibromomethane	0.057	15
2-Acetylaminofluorene	0.059	140	Chloroethane	0.27	6.0
Acrolein	0.29	NA	bis(2-Chloroethoxy)methane	0.036	7.2
Acrylamide	19	23	bis(2-Chloroethyl)ether	0.033	6.0
Acrylonitrile	0.24	84	Chloroform	0.046	6.0
Aldicarb sulfone	0.056	0.28	bis(2-Chloroisopropyl)ether	0.055	7.2
Aldrin	0.021	0.066	p-Chloro-m-cresol	0.018	14
4-Aminobiphenyl	0.13	NA	2-Chloroethyl vinyl ether	0.062	NA
Aniline	0.81	14	Chloromethane (Methyl chloride)	0.19	30
Anthracene	0.059	3.4	2-Chloronaphthalene	0.055	5.6
Aramite	0.36	NA	2-Chlorophenol	0.044	5.7
Barban	0.056	1.4	3-Chloropropylene	0.036	30
Bendiocarb	0.056	1.4	Chrysene	0.059	3.4
Benomyl	0.056	1.4	o-Cresol	0.11	5.6
alpha-BHC	0.00014	0.066	m-Cresol	0.77	5.6
beta-BHC	0.00014	0.066	p-Cresol	0.77	5.6
delta-BHC	0.023	0.066	m-Cumenyl methlycarbamate	0.056	1.4
gamma-BHC	0.0017	0.066	Cyclohexanone	0.36	0.75 mg/l TCL
Benzene	0.14	10	1,2-Dibromo-3-chloropropane	0.11	15
Benz(a)anthracene	0.059	3.4	Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Benzal chloride	0.055	6.0	Dibromomethane	0.11	15
Benzo(b)fluoranthene	0.11	6.8	2,4-D (2,4-Dichlorophenoxyacetic acid)	0.72	10
Benzo(k)fluoranthene	0.11	6.8	o,p'-DDD	0.023	0.087
Benzo(g,h,i)perylene	0.0055	1.8	p,p'-DDD	0.023	0.087
Benzo(a)pyrene	0.061	3.4	o,p'-DDE	0.031	0.087
Bromodichloromethane	0.35	15	p,p'-DDE	0.031	0.087
Methyl bromide (Bromomethane)	0.11	15	o,p'-DDT	0.0039	0.087
4-Bromophenyl phenyl ether	0.055	15	p,p'-DDT	0.0039	0.087
n-Butyl alcohol	5.6	2.6	Dibenz(a,h)anthracene	0.055	8.2
Butylate	0.042	1.4	Dibenz(a,e,)pyrene	0.061	NA
Butyl benzyl phthalate	0.017	28	m-Dichlorobenzene	0.036	6.0
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	0.066	2.5	o-Dichlorobenzene	0.088	6.0
Carbaryl	0.006	0.14	p-Dichlorobenzene	0.090	6.0
Carbenzadim	0.056	1.4	Dichlorodifluoromethane	0.23	7.2
Carbofuran	0.006	0.14	1,1-Dichloroethane	0.059	6.0
Carbofuran phenol	0.056	1.4	1,2-Dichloroethane	0.21	6.0
Carbon disulfide	3.8	4.8 mg/l TCLP	1,1-Dichloroethylene	0.025	6.0
Carbon tetrachloride	0.057	6.0	trans-1,2-Dichloroethylene	0.054	30
Carbosulfan	0.028	1.4	2,4-Dichlorophenol	0.044	14
Chlordane (alpha and gamma isomers)	0.0033	0.26	2,6-Dichlorophenol	0.044	14

HESLDR3

HERITAGE ENVIRONMENTAL SERVICES, LLC
SUPPLEMENTAL F001-F005 SPENT SOLVENT/D001-D043
UNDERLYING CONSTITUENTS/F039 LEACHATE
LAND DISPOSAL RESTRICTIONS NOTIFICATION

	2,4-Dichlorophenol		Hexachlorobutadiene	
	2,6-Dichlorophenol		Hexachlorocyclopentadiene	
	1,2-Dichloropropane		HxCDDs (All Hexachlorodibenzo-p-dioxins)	
	cis-1,3-Dichloropropylene		HxCDFs (All Hexachlorodibenzofurans)	
	trans-1,3-Dichloropropylene		Hexachloroethane	
	Dieldrin		Hexachloropropylene	
	Diethyl phthalate		Indeno (1,2,3,-c,d) pyrene	
	2, 4-Dimethyl phenol		Iodomethane	
	Dimethyl phthalate		ISOBUTYL ALCOHOL	
	Di-n-butyl phthalate		Isodrin	
	1,4-Dinitrobenzene		Isosafrole	
	4,6-Dinitro-o-cresol		Kepone	
	2,4-Dinitrophenol		Methacrylonitrile	
	2,4-Dinitrotoluene		METHANOL	
	2,6-Dinitrotoluene		Methapyrilene	
	Di-n-octyl phthalate		Methiocarb*	
	p-Dimethylaminoazobenzene*		Methomyl*	
	Di-n-propylnitrosamine		Methoxychlor	
	1,4-Dioxane		3-Methylcholanthrene	
	Diphenylamine		4,4-Methylene bis(2-chloroaniline)	
	Diphenylnitrosamine		METHYLENE CHLORIDE	
	1,2-Diphenylhydrazine		METHYL ETHYL KETONE	
	Disulfoton		METHYL ISOBUTYL KETONE	
	Dithiocarbamates (total)*		Methyl methacrylate	
	Endosulfan I		Methyl methansulfonate	
	Endosulfan II		Methyl parathion	
	Endosulfan sulfate		Metolcarb*	
	Endrin		Mexacarbate*	
	Endrin aldehyde		Molinate*	
	2-ETHOXY ETHANOL*		Naphthalene	
	EPTC*		2-Naphthylamine	
	ETHYL ACETATE		o-Nitroaniline*	
	ETHYL BENZENE		p-Nitroaniline	
	Ethyl cyanide (Propanenitrile)		NITROBENZENE	
	ETHYL ETHER		5-Nitro-o-toluidine	
	bis(2-Ethylhexyl)phthalate		o-Nitrophenol*	
	Ethyl methacrylate		p-Nitrophenol	
	Ethylene oxide		N-Nitrosodiethylamine	
	Famphur		N-Nitrosodimethylamine	
	Fluoroanthene		N-Nitroso-di-n-butylamine	
	Fluorene		N-Nitrosomethylethylamine	
	Formetanate hydrochloride*		N-Nitrosomorpholine	
	Heptachlor		N-Nitrosopiperidine	
	Heptachlor epoxide		N-Nitrosopyrrolidine	
	Hexachlorobenzene		Oxamyl*	

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
1,2-Dichloropropane	0.85	18	Hexachloropropylene	0.035	30
cis-1,3-Dichloropropylene	0.036	18	Indeno(1,2,3,-cd)pyrene	0.0055	3.4
trans-1,3-Dichloropropylene	0.036	18	Iodomethane	0.19	65
Dieldrin	0.017	0.13	Isobutyl alcohol	5.6	170
Diethyl phthalate	0.20	28	Isodrin	0.021	0.066
2,4-Dimethyl phenol	0.036	14	Isosafrole	0.081	2.6
Dimethyl phthalate	0.047	28	Kepone	0.0011	0.13
Di-n-butyl phthalate	0.057	28	Methacrylonitrile	0.24	84
1,4-Dinitrobenzene	0.32	2.3	Methanol	5.6	0.75 mg/l TCLP
4,6-Dinitro-o-cresol	0.28	160	Methapyrilene	0.081	1.5
2,4-Dinitrophenol	0.12	160	Methiocarb	0.056	1.4
2,4-Dinitrotoluene	0.32	140	Methomyl	0.028	0.14
2,6-Dinitrotoluene	0.55	28	Methoxychlor	0.25	0.18
Di-n-octyl phthalate	0.017	28	3-Methylcholanthrene	0.0055	15
p-Dimethylaminoazobenzene	0.13	NA	4,4-Methylene bis(2-chloroaniline)	0.50	30
Di-n-propylnitrosamine	0.40	14	Methylene chloride	0.089	30
1,4-Dioxane	12.0	170	Methyl ethyl ketone	0.28	36
Diphenylamine	0.92	13	Methyl isobutyl ketone	0.14	33
Diphenylnitrosamine	0.92	13	Methyl methacrylate	0.14	160
1,2-Diphenylhydrazine	0.087	NA	Methyl methansulfonate	0.018	NA
Disulfoton	0.017	6.2	Methyl parathion	0.014	4.6
Dithiocarbamates (total)	0.028	28	Metolcarb	0.056	1.4
Endosulfan I	0.023	0.066	Mexacarbate	0.056	1.4
Endosulfan II	0.029	0.13	Molinate	0.042	1.4
Endosulfan sulfate	0.029	0.13	Naphthalene	0.059	5.6
Endrin	0.0028	0.13	2-Naphthylamine	0.52	NA
Endrin aldehyde	0.025	0.13	o-Nitroaniline	0.27	14
EPTC	0.042	1.4	p-Nitroaniline	0.028	28
Ethyl acetate	0.34	33	Nitrobenzene	0.068	14
Ethyl benzene	0.057	10	5-Nitro-o-toluidine	0.32	28
Ethyl cyanide (Propanenitrile)	0.24	360	o-Nitrophenol	0.028	13
Ethyl ether	0.12	160	p-Nitrophenol	0.12	29
bis(2-Ethylhexyl)phthalate	0.28	28	N-Nitrosodiethylamine	0.40	28
Ethyl methacrylate	0.14	160	N-Nitrosodimethylamine	0.40	2.3
Ethylene oxide	0.12	NA	N-Nitroso-di-n-butylamine	0.40	17
Famphur	0.017	15	N-Nitrosomethylethylamine	0.40	2.3
Fluoroanthene	0.068	3.4	N-Nitrosomorpholine	0.40	2.3
Fluorene	0.059	3.4	N-Nitrosopiperidine	0.013	35
Formetanate hydrochloride	0.056	1.4	N-Nitrosopyrrolidine	0.013	35
Heptachlor	0.0012	0.066	Oxamyl	0.056	0.28
Heptachlor epoxide	0.016	0.066	Parathion	0.014	4.6
Hexachlorobenzene	0.055	10	Total PCBs (sum of all PCB isomers, or all Aroclors)	0.10	10
Hexachlorobutadiene	0.055	5.6	Pebulate	0.042	1.4
Hexachlorocyclopentadiene	0.057	2.4	Pentachlorobenzene	0.055	10
HxCDDs (All Hexachlorodibenzo-p-dioxins)	0.000063	0.001	PeCDDs (All Pentachlorodibenzo-p-dioxins)	0.000063	0.001
HxCDFs (All Hexachlorodibenzofurans)	0.000063	0.001	PeCDFs (All Pentachlorodibenzofurans)	0.000035	0.001
Hexachloroethane	0.055	30	Pentachloroethane	0.055	6.0

HERITAGE ENVIRO[illegible]TAL SERVICES, LLC
SUPPLEMENTA[illegible]NT SOLVENT/D001-D043
UNDERLYING [illegible]TS/F039 LEACHATE
LAND DISPOSA[illegible]ONS NOTIFICATION

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Parathion*			Toxaphene
	Total PCBs (sum of all PCB isomers, or all Aroclors)			Triallate*
	Pebulate*			Tribromomethane (Bromoform)
	Pentachlorobenzene			2, 4, 6-Tribromophenol
	PeCDDs (All Pentachlorodibenzo-p-dioxins)			1,2,4-Trichlorobenzene
	PeCDFs (All Pentachlorodibenzofurans)			1,1,1-TRICHLOROETHANE
	Pentachloroethane*			1,1,2-TRICHLOROETHANE
	Pentachloronitrobenzene*			TRICHLOROETHYLENE
	Pentachlorophenol			TRICHLOROMONOFLUOROMETHANE
	Phenacetin			2,4,5-Trichlorophenol
	Phenanthrene			2,4,6-Trichlorophenol
	Phenol			1,2,3-Trichloropropane
	Phorate			1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
	Phthalic acid*			Triethylamine*
	Phthalic anhydride			tris-(2,3-Dibromopropyl) phosphate
	Physostigmine*			Vernolate*
	Physostigmine salicylate*			Vinyl chloride
	Promecarb*			XYLENES-MIXED ISOMERS
	Pronamide			Antimony
	Propham*			Arsenic
	Propoxur*			Barium
	Prosulfocarb*			Beryllium
	Pyrene			Cadmium
	PYRIDINE			Chromium (Total)
	Safrole			Cyanides (Total)[1]
	Silvex (2,4,5-TP)			Cyanides (Amenable)[1]
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)			Fluoride[2]
	1,2,4,5-Tetrachlorobenzene			Lead
	TCDDs (All Tetrachlorodibenzo-p-dioxins)			Mercury - Nonwastewater from Retort
	TCDFs (All Tetrachlorodibenzofurans)			Mercury - All Others
	1,1,1,2-Tetrachloroethane			Nickel
	1,1,2,2-Tetrachloroethane			Selenium[2]
X	TETRACHLOROETHYLENE	V/Ha		Silver
	2,3,4,6-Tetrachlorophenol			Sulfide[2]
	Thiodicarb*			Thallium
	Thiophanate-methyl*			Vanadium[2]
	TOLUENE			

* Not an F039 constituent

(1) Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-486 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

(2) Fluoride, selenium, sulfide, and vanadium are F039 constituents only and are not underlying hazardous constituents for characteristic wastes.

Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)	Regulated Constituent	Wastewater (mg/l)	Nonwastewater (mg/kg)
Pentachloronitrobenzene	0.055	4.8	[illegible]	[illegible]	[illegible]
Pentachlorophenol	0.089	7.4	1,2,4-Trichlorobenzene	[illegible]	19
Phenacetin	0.081	16	1,1,1-Trichloroethane	[illegible]	6.0
Phenanthrene	0.059	5.6	1,1,2-Trichloroethane	0.054	6.0
Phenol	0.039	6.2	Trichloroethylene	0.054	[illegible]
Phorate	0.021	4.6	Trichloromonofluoromethane	0.020	30
Phthalic acid	0.055	28	2,4,5-Trichlorophenol	0.18	7.4
Phthalic anhydride	0.055	28	2,4,6-Trichlorophenol	0.035	7.4
Physostigmine	0.056	1.4	1,2,3-Trichloropropane	0.85	30
Physostigmine salicylate	0.056	1.4	1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30
Promecarb	0.056	1.4	Triethylamine	0.081	1.5
Pronamide	0.093	1.5	tris-(2,3-Dibromopropyl) phosphate	0.11	0.10
Propham	0.056	1.4	Vernolate	0.042	1.4
Propoxur	0.056	1.4	Vinyl chloride	0.27	6.0
Prosulfocarb	0.042	1.4	Xylenes-mixed isomers	0.32	30
Pyrene	0.067	8.2	Antimony	1.9	1.15 mg/l TCLP
Pyridine	0.014	16	Arsenic	1.4	5.0 mg/l TCLP
Safrole	0.081	22	Barium	1.2	21 mg/l TCLP
Silvex (2,4,5-TP)	0.72	7.9	Beryllium	0.82	1.22 mg/l TCLP
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.72	7.9	Cadmium	0.69	0.11 mg/l TCLP
1,2,4,5-Tetrachlorobenzene	0.055	14	Chromium (Total)	2.77	0.60 mg/l TCLP
TCDDs (All Tetrachlorodibenzo-p-dioxins)	0.000063	0.001	Cyanides (Total)[1]	1.2	590
TCDFs (All Tetrachlorodibenzofurans)	0.000063	0.001	Cyanides (Amenable)[1]	0.86	30
1,1,1,2-Tetrachloroethane	0.057	6.0	Lead	0.69	0.75 mg/l TCLP
1,1,2,2-Tetrachloroethane	0.057	6.0	Mercury - Nonwastewater from Retort	NA	0.20 mg/l TCLP
Tetrachloroethylene	0.056	6.0	Mercury - All Others	0.15	0.025 mg/l TCL
2,3,4,6-Tetrachlorophenol	0.030	7.4	Nickel	3.98	11 mg/l TCLP
Thiodicarb	0.019	1.4	Silver	0.43	0.14 mg/l TCLP
Thiophanate-methyl	0.056	1.4	Thallium	1.4	0.20 mg/l TCLP
TOLUENE	0.080	10			
Toxaphene	0.0095	2.6			
Triallate	0.042	1.4			
Tribromomethane (Bromoform)	0.63	15			

[1] Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using SW-846 Method 9010 or 9012 with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

NOTE: NA means not applicable.

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT OF NATURAL RESOURCES 573-634-2436

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M O D 0 7 3 0 2 7 6 0 9 Manifest Document No. 1 0 2 4 3

2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICES CORP.
P O BOX 3249, SHAWNEE, KS 66203

4. Generator's Phone (~~816~~ 913) 631-~~0900~~ 8181 MLF 12/15/98

5. Transporter 1 Company Name
INDUSTRIAL SERVICE CORP.

6. US EPA ID Number
M O D 0 7 3 0 2 7 6 0 9

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
8525 NE 38TH STREET
KANSAS CITY, MO 64161

10. US EPA ID Number
M O D 9 8 1 5 0 5 5 5 5

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (D039) ERG# 171	001	TT	3000 gal MLF 12/15/98	G
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above
a. [illegible]
b. [illegible]
c.
d.

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #: 913-631-8181
SPEC. GRAV. 1.3
TRAILER# TRUCK #1-89
LICENSE# 22944 Mo.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: ROGER SHUR | Signature: Roger Shur | Month 12 Day 16 Year 98

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: ROBERT W. FIKE | Signature: Robert W Fike | Month 12 Day 16 Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
Rejected back to generator 2718 gal. JL 12/16/98
Unloaded only 282

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 | Date

Printed/Typed Name: JEFF LOWLOS | Signature: Jeff Lowlos | Month 12 Day 16 Year 98

GENERATOR
TRANSPORTER
FACILITY

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE

MISSOURI DNR FINAL COPY – PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED FACILITY IN ACCORDANCE WITH THE GENERATOR

DEPARTMENT OF NATURAL RESOURCES

BILL OF LADING FOR STOP: 237241
Code: 179924
Owner: 17193 DEFFENBAUGH INDUSTRIES, INCO
Contact: SEAN WHITE (913)631-8300
Number(s): ISC1020
Date : 48-15

HERITAGE

LANDBAN

HERITAGE ENVIRONMENTAL SERVICES, LLC
7901 WEST JACKSON STREET INDIANAPOLIS, IN 46231
(317)243-0841 http://www.heritage-enviro.com

Signature Roger Suhr Name (please print) Roger Suhr Date 12-16-98
This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SEAN WHITE
INDUSTRIAL SERVICE CORPORATION
DIVISION OF DEFFENBAUGH INDUSTRIES, INC.
1633 SOUTH MARSH
KANSAS CITY MO 64126

STATE ID: 001813
EPA ID: MOD007027609
Phone: 913 631-8181
DENNOVATION: 20680 XX

INIT
LINER _____ ___
PUMP/HOSE _____ ___
DEMURRAGE _____ ___
EMER RATE _____ ___

TRANSPORTER: 10505
INDUSTRIAL SERVICE CORP.

EPA ID: MOD007027609
Phone: (913)631-8300

DRIVER# ____ ROLLOFF# ____
TRACTOR# 1-89 TRAILER# ____

Signature Robert W File Name (please print) Robert W File Date 12-16-98
As transporter, I accept this material for transportation in accordance with all applicable regulations.

TSDF: 9028
HERITAGE ENVIRONMENTAL SERVICES LLC
8520 NE 38TH STREET
KANSAS CITY MO 64161

EPA ID: MOD981505055
Phone: (816)455-4271
Contact: JOHN DILLON

INIT
DEMURRAGE _____ ___

Signature Jeff Loulos Name (please print) Jeff Loulos Date 12/16/98
As the receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

WSM Prod	RCS Doc	Common Name	DOT Serious State Manifest	Pkg Cnt	Ordered Qty / Qty Unit	Shipped Quantity	Unit	Received Qty / Unit
2 18	780659	USED OIL SLUDGE						

DOT : RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA9082, PG III, (UN/NA) ERGN 171 TH: 282 282 gal
CMI : 0059
SC IL Auth# N/A Tank: Quote: 116720 Scale: % WATER 24% Gal one: gal LBS:

Est Total Miles 5 Act Total Miles _____

Rolloff: Out _____ In _____

CONTAINER TYPES AND/OR QUANTITIES TO BE PICKED UP

TIME:

Pickup Date: 15-DEC-1998 - 15-DEC-1998 Actual Date: _____ Actual Time: _____ Demurrage: _____
ADDL_REQTS:
PPE: CHEM RES GLVS,CHEM GLGLS,R BOOTS,FACE SHLD,PLT/VEN SUIT,RESP-ORGN CANI
Spl Instrs: COMPLETE ALL PAPERWORK

EMERGENCY CHEMICAL ASSIASTANCE TELEPHONE NUMBER: 1-800-927-5021

MAIL TO GENERATOR

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

Ple nt or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page ___ of ___

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.
a.				
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

a.

b.

c.

d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month | Day | Year

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR COPY - PART C

IMPORTANT

SEE INSTRUCTIONS

EPA FORM 8700-22 (REV. 9-96) MDNR-HWG 10

PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE.

[redacted]

umber(s): ISC1020

at

[redacted]

nature [signature] Name (please print) ROGER SHAW Date 12-16-98

s is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

			INIT
ORIGIN WHERE:			
INDUSTRIAL SERVICE CORPORATION	STATE ID: 001813	LINER	
DIVISION OF [illegible] INDUSTRIES, INC.	EPA ID: MOD007302609	PUMP/HOSE	
1633 SOUTH NORTON	Phone: (913) 631-8881	DUMPWAGON	
KANSAS CITY MO 64126	CONTACT: [illegible]	OTHER RATE	

TRANSPORTER: 10505 EPA ID: MOD007302609 DRIVER# ____ TRACTOR# ____
INDUSTRIAL SERVICE CORP. Phone: (913) 631-3300 TRACTOR# 1-89 TRAILER# ____

nature [signature] Name (please print) Robert W FILE Date 12-16-98
transporter, I accept this material for transportation in accordance with all applicable regulations.

			INIT
: 9028			
LINDE ENVIRONMENTAL SERVICES LLC	EPA ID: MOD981505525	DUMPWAGON	
5 NE 38TH STREET	Phone: (816) 459-4321		
KANSAS CITY MO 64161	Contact: [illegible]		

nature [signature] Name (please print) JEFF LOWDS Date 12/16/98
the receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Prod ID	Doc Common Name	DOT Denoted State Manifest	Qty Unit	Ordered Quantity	Shipped Unit	Received Qty
10	79065? USED OIL SLUDGE	Y				

: RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA9082, PG III, (D039) Base Oil
D039
II Auth# N/A Tank: Quote: 156720 Scale: X WHOLE

Gallons: 41

Est Total Miles 5 Act Total Miles ____

Delivered Out ____ In ____

[illegible]

Pickup Date: 15-DEC-1998 - 15-DEC-1998 Actual Date: ____ Actual Time: ____ Demurrage: ____

: CHEM RES GLVS, CHEM GLGS, R BOOTS, FACE SHLD, POLYVLK SUIT, [illegible] CAP

[illegible]

[redacted]

[redacted]

(317)243-0011 http://www.heritage-enviro.com

Signature [illegible] Name (please print) ROGER SOHR Date 12-16-88

I hereby certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

GENERATOR NAME: HAZARDOUS SERVICE CORPORATION DIVISION OF [illegible] INDUSTRIES, INC. 1633 SOUTH MAYSO KANSAS CITY MO 64126	STATE ID: 001813 EPA ID: [illegible] Phone: (913) 631-[illegible] Generator: [illegible]	LINE: ____ INC PROD/WASTE: ____ DIMENSIONS: ____ PER RATE: ____

TRANSPORTER: 10509 EPA ID: [illegible] Driver: ____ Truck: ____
HAZARDOUS SERVICE CORP. Phone: (913) 631-3300 Trailer: 1-89 Shift Hrs: ____

Signature [illegible] Name (please print) Robert W FILE Date 12-16-88

As transporter, I accept this material for transportation in accordance with all applicable regulations.

TSD: 9026 INIL
HERITAGE ENVIRONMENTAL SERVICES LLC EPA ID: [illegible] Drivers: ____
5 NE 30TH STREET Phone: (316) 945-[illegible]
WICHITA KS 67219 Contact: [illegible]

Signature [illegible] Name (please print) JEFF Lowles Date 12/16/88

As the receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

Prod ID	DOT Proper Shipping Name	RCRA Hazardous Waste Manifest	Ordered Qty Unit	Shipped Quantity Unit	Received Qty Unit
10	790069 USED OIL SLUDGE	Y			GAL
	UN, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA9000, PG III, (UCSF) Erie PA				

Tank: N/A Tank: Quote: [illegible] Scale: [illegible] Gallons: [illegible]

Est Total Miles 5 Act Total Miles ____

Gallons ____ ____ In ____

Signature ____

Pickup Date: 15-DEC-1998 - 15-DEC-1998 Actual Date: ____ Actual Time: ____ Demurrage: ____

Comments: CHECK LES GLOVES, CHECK GLOVES, R BOOTS, FALL SAFETY, POTIVER SUIT, [illegible]

Internal: [illegible]

[illegible] DISPATCH ASSISTANCE TELEPHONE NUMBER: 1-800-[illegible]

[redacted]

[illegible] 237241
Zip Code: [illegible]
[illegible] DUFFENBOUGH INDUSTRIES, INC
[illegible]
Number(s): [illegible]
[illegible]

Pg: 1

HERITAGE ENVIRONMENTAL SERVICES, LLC
7901 WEST MORRIS STREET INDIANAPOLIS IN 46231
(317)243-0011 http://www.heritage-enviro.com

Signature [illegible] Name (please print) ROGER SHAR Date 12-16-98
This is to certify that the materials listed below are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[illegible]
INDUSTRIAL SERVICE CORPORATION
[illegible]
1533 SOUTH MOSCH
KANSAS CITY MO 64126

STATE ID: 001813
[illegible]
Phone: 913 [illegible]
[illegible]

LINER
[illegible]
[illegible]
[illegible]

[illegible]
INDUSTRIAL SERVICE CORP.

[illegible]
Phone: (913)631-3300

[illegible] 1-89 TRAILER#

Signature [illegible] Name (please print) Robert W. File Date 12-16-98
Transporter, I accept this material for transportation in accordance with all applicable regulations.

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]

Name (please print) [illegible] Date [illegible]
The receiving facility, I accept this material for treatment, storage or disposal in accordance with all applicable regulations.

[illegible] Common Name
[illegible] USED OIL SLUDGE

[illegible]

[illegible]

Est Total Miles [illegible] Total Miles
[illegible]

[illegible]

[illegible] Actual Date: Actual Time:

[illegible]

[illegible] CHEMICAL ASSISTANCE TELEPHONE NUMBER: 1-800-[illegible]-5221

GENERATOR

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE [illegible]

[illegible] RESPONSE	U.S. COAST GUARD 1-800-424-8802	[illegible] TREC 1-800-424-9300	[illegible] 573-[illegible]

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible]
2. Manifest Document No. [illegible]
3. Page 1 of 1
Information in the shaded [illegible] is required by State law.

3. Generator's Name and Mailing Address
[illegible]

4. Generator's Phone (816) [illegible]

5. Transporter 1 Company Name: [illegible] SERVICE CORP.
6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
[illegible]

10. US EPA ID Number: [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	Quantity	Wt/Vol
a. [illegible]	[illegible]	TT	3000 gal	G
b.				
c.				

[redacted]

15. Special Handling Instructions and Additional Information
[illegible] PHONE # 913-631-8181 [illegible] Truck #1-89
SPEC. GRAV. 1.3 [illegible] 2744 [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
ROGER SUHR	[illegible]	12	16	98

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	12	16	98

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
[illegible] 12/16/98

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
JEFF LOCKES	[illegible]	[illegible]		

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER FINAL COPY – PART 5

THIS COPY IS TO BE RETAINED BY THE TRANSPORTER.

EPA FORM 8700-22 (REV. 9-88) MENR FORM 10 PREVIOUS EDITIONS ARE OBSOLETE

CONTAINS [illegible] INCLUDES NOT [illegible] CONSUMER WASTE.

STATE OF ARKANSAS
Department of Pollut[illegible] Control and Ecology
P.O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-682-0744

347/980 Thurs

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609
Manifest Document No.:
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Industrial Service Corporation
1633 S. Marsh Avenue
Kansas City, MO 64126
Attn: Ron Wood

4. Generator's Phone: 913-631-330

A. State Manifest Document Number: AR- 1016939
B. State Generator's ID:

5. Transporter 1 Company Name: Industrial Service Corporation
6. US EPA ID Number: MOD073027609
C. State Transporter's ID: H- 1664
D. Transporter's Phone: 913-631-3300

7. Transporter 2 Company Name: HUB CITY ENVIRONMENTAL
8. US EPA ID Number: TX0000992032
E. State Transporter's ID: H- 931
F. Transporter's Phone: 713-997-0070

9. Designated Facility Name and Site Address
Rineco
1007 Vulcan Rd.-Haskell
Benton, AR 72015
10. US EPA ID Number: ARD981057870
G. State Facility's ID:
H. Facility's Phone: 501/778-9089

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Environmentally Hazardous Substance, Liquid, N.O.S. (Tetrachloroethylene) 9 UN3082 PGIII	001	TT	4000-	G	D039
b.					
c.					
d.					

Additional Description for Materials Listed Above
a. 9809-06180 ERG#171 (Used Oil Sludge)

if no alternate TSDF, return to generator. Pick Up Date: Del. 1-28-99 7AM Load # 27953

K. Emergency Response Information:
Ron Wood
913-631-3300

15. Special Handling Instructions and Additional Information
Mail all invoices, original manifests, Certificates of Destruction to: Deffenbaugh Industries Attn: Ron Wood
18181 West 53rd Street
Shawnee, KS 66217

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Arkansas state regulations.
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Printed/Typed Name: Ronald W. Wood
Signature: [signature]
Month Day Year: 012799

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robert W. File
Signature: Robert W File
Month Day Year: 012799

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOE BOHANNON
Signature: Joe Bohannon
Month Day Year: 012799

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Patricia Grinstead
Signature: Patricia Grinstead
Month Day Year: 012599

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

[illegible] THAN TWO [illegible] MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT [illegible] DELIVERED [illegible] RETURN THIS ORIGINAL COPY TO THE GENERATOR

STATE OF ARKANSAS
Department of Pollution Control and Ecology
P.O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-682-0744

6

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609
Manifest Document No.:
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Industrial Service Corporation
1633 S. Marsh Avenue
Kansas City, MO 64126
4. Generator's Phone (913-631-3300 Attn: Ron Wood

A. State Manifest Document Number: AR- 1016939
B. State Generator's ID:

5. Transporter 1 Company Name: 6. US EPA ID Number:
C. State Transporter's ID: H- 2464
D. Transporter's Phone:

7. Transporter 2 Company Name: 8. US EPA ID Number:
E. State Transporter's ID: H-
F. Transporter's Phone: 713-997-00

9. Designated Facility Name and Site Address
Rineco
1007 Vulcan Rd. Haskell
Benton, AR 72015
10. US EPA ID Number: ARD981057870
G. State Facility's ID:
H. Facility's Phone: 501/778-9089

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Environmentally Hazardous Substance, Liquid, N.O.S. (Tetrachloroethylene) 9 UN3082 PGIII		TT		G	D039
b.					
c.					
d.					

J. Additional Description for Materials Listed Above
a. 9809-06180 ERG#171 (Used Oil Sludge)

if no alternate TSDF, return to generator Pick Up Date: Del 1-28-99 7AM Load # 27953

K. Emergency Response Information:
Ron Wood
913-631-3300

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18181 West 53rd Street
Shawnee, KS 66217

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Printed/Typed Name: Signature: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Signature: Month Day Year

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

GENERATOR INITIAL COPY

RINECO LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Generator	Industrial Service Corp.	EPA ID #	MOD073027609
EPA Codes	D039	State Man. Doc. #	AR-1016939
		Man. Doc. #	
		Profile #	9809-06180
		Line Item	11a

EPA Waste Codes		Waste Description & Treatment/ Regulatory Subcategory (NON-WASTEWATER)	Concentration in mg/l or Technology Code
	D001	Ignitable characteristic wastes,except for 261.21(a)(1) High TOC subcategory that are managed in Non-CWA/nonCWA equivalent/non class 1 SDWA systems.	DEACT and meet 268.48 standards or RORGS; or CMBST
	D001	High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1)-greater than or equal to 10% TOC.	RORGS; or CMBST; or POLYM
	D002	Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.	DEACT & meet 268.48 standards

D004-D011 Heavy Metals Expressed in Concentrations of mg/l (TCLP) and must meed 268.48 Standards. (NON-WASTEWATER)

	D004 Arsenic 5.0		D008 Lead 0.75
	D005 Barium 21		D009 Mercury 0.20 low mercury subcategory
	D006 Cadmium 0.11		D010 Selenium 5.7
	D007 Chromium 0.60		D011 Silver 0.14

D012-D043 Concentrations Expressed in mg/kg, and Must Meet 268.48 Standards. (NON-WASTEWATER)

	D012 Endrin 0.13		D024 m-cresol 5.6		D036 Nitrobenzene 14
	D013 Lindane 0.066		D025 p-cresol 5.6		D037 Pentachlorophenol 7.4
	D014 Methoxychlor 0.18		D026 Cresol Mixed Isomer 11.2		D038 Pyridine 16
	D015 Toxaphene 2.6		D027 p-dichlorobenzene 6.0	XXX	D039 Tetrachloroethylene 6.0
	D016 2,4 D 10		D028 1,2-dichloroethane 6.0		D040 Trichloroethylene 6.0
	D017 2,4,5-TP Silvex 7.9		D029 1,1-dichloroethylene 6.0		D041 2,4,5-Trichlorophenol 7.4
	D018 Benzene 10		D030 2,4-dinitrotoluene 140		D042 2,4,6-Trichlorophenol 7.4
	D019 Carbon Tetrachloride 6.0		D031 Heptachlor & epoxides 0.066		D043 Vinyl Chloride 6.0
	D020 Chlordane 0.26		D032 Hexachlorobenzene 10		
	D021 Chlorobenzene 6.0		D033 Hexachlorobutadiene 5.6		
	D022 Chloroform 6.0		D034 Hexachloroethane 30		
	D023 o-cresol 5.6		D035 Methyl Ethyl Ketone 36		

F001-F005 Spent Solvents; concentrations expressed in mg/kg (NON-WASTEWATER) F003-F005 Non-Wastewater spent solvents expressed in mg/l (TCLP)

	Acetone 160		Isobutyl Alcohol 170		Carbon disulfide 4.8
	Benzene 10		Methylene Chloride 30		Cyclohexanone 0.75
	N-butyl alcohol 2.6		Methyl Ethyl Ketone 36		Methanol 0.75
	carbon tetrachloride 6.0		Methyl Isobutyl Ketone 33		
	chlorobenzene 6.0		Nitrobenzene 14		
	o-cresol 5.6		Pyridine 16		
	m-cresol 5.6		Tetrachloroethylene 6.0		
	p-cresol 5.6		Toluene 10		
	Cresol mixed isomers 11.2		111-Trichloroethane 6.0		
	O - Dichlorobenzene 6.0		112-Trichloroethane 6.0		
	Ethyl Acetate 33		112-Trichloro-122-trifluoroethane 30		
	Ethyl Benzene 10		Trichloroethylene 6.0		
	Ethyl Ether 160		Trichloromonofluoromethane 30		
			Xylene (mixed isomers) 30		

08/19/98 SC.

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Generator Name: Industrial Service Corp. **Rineco Profile #** 9809-06180

Manifest Doc. #: AR-1016939 **Manifest Doc. #:**

If the specified treatment technology of "DEACT" and meet 268.48 Standard" is identified, then each underlying hazardous constituent present in the waste the point of generation that is at a level above the F039 constituent specific treatment standard must be listed. Please check the box next to each constituen present to note the constituent(s) that must be managed under 40 CF268.7 .

Constituent	Present	NWW	Constituent	Present	NWW
I. Organic Constituents	Check Here	Mg/kg3		Check Here	Mg/kg3
A2213		1.4	Chlordane (alpha & gamma isomers)		0.26
Acenaphthene		3.4	p-Chloroaniline		16
Acenaphthylene		3.4	Chlorobenzene		6.0
Acetone		160	Chlorobenzilate		NA
Acetonitrile		38	2-Chloro-1,3-butadiene		0.28
Acetophenone		9.7	Chlorodibromomethane		15
2-Acetylaminofluorene		140	Chloroethane		6.0
Acrolein		NA	bis (2-Chloroethoxy) methane		7.2
Acrylamide		23	bis (2-Chloroethyl) ether		6.0
Acrylonitrile		84	2-Chloroethyl Vinyl Ether		NA
Aldicarb Sulfone		0.28	Chloroform		6.0
Aldrin		0.066	bis (2-Chloroisopropyl) ether		7.2
4-Aminobiphenyl		NA	p-Chloro-m-cresol		14
Aniline		14	Chloromethane / Methyl Chloride		30
Anthracene		3.4	2-Chloronaphthalene		5.6
Aramite		NA	2-Chlorophenol		5.7
Barban		1.4	3-Chloropropylene		30
[illegible]ocarb		1.4	Chrysene		3.4
[illegible]ocarb Phenol		1.4	o-Cresol		5.6
Benomyl		1.4	m-Cresol		5.6
Benz (a) anthracene		3.4	p-Cresol		5.6
Benzal Chloride		5.0	m-Cumenyl Methylcarbamate		1.4
Benzene		10	Cyclohexanone		0.75 mg/L TCLP
Benzo (b) fluoranthene		6.8	o, p'- DDD		0.087
Benzo (k) fluoranthene		6.8	p, p'- DDD		0.087
Benzo (g,h,i) perylene		1.8	o, p'- DDE		0.087
Benzo (a) pyrene		3.4	p, p'- DDE		0.087
alpha-BHC		0.066	o,p'-DDT		0.087
beta-BHC		0.066	p, p'- DDT		0.087
delta-BHC		0.066	Dibenz (a,h) anthracene		8.2
gamma-BHC		0.066	Deibenz (a, e) pyrene		NA
Bromodichloromethane		15	1, 2-Dibromo-3-chloropropane		15
Bromomethane / Methyl Bromide		15	1, 2-Dibromoethane/Ethylene Dibromide		15
4-bromophenyl Phenyl Ether		15	Dibromomethane		15
N-butyl Alcohol		2.6	m-Dichlorobenzene		6.0
Butyl Benzyl Phthalate		28	o-Dichlorobenzene		6.0
Butylate		1.4	p-Dichlorobenzene		6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		2.5	Dichlorodifluoromethane		7.2
Carbaryl		0.14	1, 1-Dichloroethane		6.0
Carbenzadim		1.4	1, 2-Dichloroethane		6.0
Carbofuran		0.14	1, 1-Dichloroethylene		6.0
Carbofuran Phenol		1.4	trans-1, 2-Dichloroethylene		30
[illegible]on Disulfide		4.8 mg/L TCLP	2, 4-Dichlorophenol		14
[illegible]n Tetrachloride		6.0	2, 6-Dichlorophenol		14
Carbosulfan		1.4	2, 4-Dichlorophenoxyacetic Acid/2, 4-D		10

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Constituent	Present Check Here	NWW Mg/kg3	Constituent	Present Check Here	NWW Mg/kg3
I. [illegible]nic Constituents Cont'd					
1, 2-Dichloropropane		18	HxCDFs (All Hexachlorodibenzofurans)		0.001
cis-1, 3-Dichloropropylene		18	Indeno (1,2,3-c,d) pyrene		3.4
trans-1, 3-Dichloropropylene		18	Iodomethane		65
Dieldrin		0.13	Isobutyl Alcohol		170
Diethyl Phthalate		28	Isodrin		0.066
Diethylene Glycol, Dicarbamate		1.4	Isolan		1.4
p-Dimethylaminoazobenzene		NA	Isosafrole		2.6
2-4-Dimethyl Phenol		14	Kepone		0.13
Dimethyl Phthalate		28	Methacrylonitrile		84
Dimetilan		1.4	Methanol		0.75 mg/L TCLP
Di-n-butyl Phthalate		28	Methapyrilene		1.5
1, 4-Dinitrobenzene		2.3	Methiocarb		1.4
4, 6-Dinitro-o-cresol		160	Methomyl		0.14
2, 4-Dinitrophenol		160	Methoxychlor		0.18
2, 4-Dinitrotoluene		140	Methyl Ethyl Ketone		36
2, 6-Dinitrotoluene		28	Methyl Isobutyl Ketone		33
Di-n-octyl Phthalate		28	Methyl Methacrylate		160
Di-n-propylnitrosamine		14	Methyl Methansulfonate		NA
1, 4-Dioxane		170	Methyl Parathion		4.6
Diphenylamine		13	3-Methylcholanthrene		15
Diphenylnitrosamine		13	4, 4-Methylene bis (2-chloroaniline)		30
1, 2-Diphenylhydrazine		NA	Methylene Chloride		30
Disulfoton		6.2	Metolcarb		1.4
[illegible]ocarbamates (total)		28	Mexacarbate		1.4
[illegible]lfan I		0.066	Molinate		1.4
Endosulfan II		0.13	Naphthalene		5.6
Endosulfan Sulfate		0.13	2-Naphthylamine		NA
Endrin		0.13	o-Nitroaniline		14
Endrin Aldehyde		0.13	p-Nitroaniline		28
EPTC		1.4	Nitrobenzene		14
Ethyl Acetate		33	5-Nitro-o-toluidine		28
Ethyl Benzene		10	o-Nitrophenol		13
Ethyl Cyanide/Propanenitrile		360	p-Nitrophenol		29
Ethyl Ether		160	N-Nitrosodiethylamine		28
Ethyl Methacrylate		160	N-Nitrosodimethylamine		2.3
Ethylene Oxide		NA	N-Nitroso-di-n-butylamine		17
bis (2-Ethylhexyl) Phthalate		28	N-Nitrosomethylethylamine		2.3
Famphur		15	N-Nitrosomorpholine		2.3
Fluoranthene		3.4	N-Nitrosopiperidine		35
Fluorene		3.4	N-Nitrosopyrrolidine		35
Formetanate Hydrochloride		1.4	Oxamyl		0.28
Formparanate		1.4	Parathion		4.6
Heptachlor		0.066	Total PCBs (Sum of all PCB isomers, or all Arochlors)		10
Heptachlor Epoxide		0.066	Pebulate		1.4
Hexachlorobenzene		10	Pentachlorobenzene		10
Hexachlorobutadiene		5.6	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.001
Hexachlorocyclopentadiene		2.4	PeCDFs (All Pentachlorodibenzofurans)		0.001
Hexachloroethane		30	Pentachloroethane		6.0
[illegible]xachloropropylene		30	Pentachloronitrobenzene		4.8
[illegible]DDs (All Hexachlorodibenzo-p-dioxins)		0.001	Pentachlorophenol		7.4

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Constituent	Present	NWW	Constituent	Present	NWW
I. Organic Constituents Cont'd	Check Here	Mg/kg3	**II. Inorganic Constituents**	Check Here	Mg/kg3
Phenacetin		16	Antimony		1.15 mg/L TCLP
Phenanthrene		5.6	Arsenic		5.0 mg/L TCLP
Phenol		6.2	Barium		21 mg/L TCLP
o-Phenylenediamine		5.6	Beryllium		1.22 mg/L TCLP
Phorate		4.6	Cadmium		0.11 mg/L TCLP
Phthalic Acid		28	Chromium (Total)		0.60 mg/L TCLP
Phthalic Anhydride		28	Cyanides (Total)		590
Physostigmine		1.4	Cyanides (Amenable)		30
Physostigmine Salicylate		1.4	Fluoride		NA
Promecarb		1.4	Lead		0.75 mg/L TCLP
Pronamide		1.5	Mercury-Nonwastewater from retort		0.20 mg/L TCLP
Propham		1.4	Mercury-All Others		0.025 mg/L TCLP
Propoxur		1.4	Nickel		11 mg/L TCLP
Prosulfocarb		1.4	Selenium		5.7 mg/L TCLP
Pyrene		8.2	Silver		0.14 mg/L TCLP
Pyridine		16	Sulfide		NA
Safrole		22	Thallium		0.20 mg/L TCLP
Silvex / 2,4,5-TP		7.9	Vanadium		1.6 mg/L TCLP
1,2,4,5-Tetrachlorobenzene		14	Zinc		4.3 mg/L TCLP
TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.001			
TCDFs (All Tetrachlorodibenzofurans)		0.001			
1,1,1,2-Tetrachloroethane		6.0			
1,1,2,2-Tetrachloroethane		6.0			
Tetrachloroethylene		6.0			
2,3,4,6-Tetrachlorophenol		7.4			
Thiodicarb		1.4			
Thiophanate-methyl		1.4			
Tirpate		0.28			
Toluene		10			
Toxaphene		2.6			
Triallate		1.4			
Tribromomethane/Bromoform		15			
2,4,6-Tribromophenol		7.4			
1,2,4-Trichlorobenzene		19			
1,1,1-Trichloroethane		6.0			
1,1,2-Trichloroethane		6.0			
Trichloroethylene		6.0			
Trichloromonofluoromethane		30			
2,4,5-Trichlorophenoxyacetic Acid/2,4,5-T		7.4			
2,4,6-Trichlorophenol		7.4			
2,4,5-Trichlorophenol		7.9			
1,2,3-Trichloropropane		30			
1,1,2-Trichloro-2,2,2-trifluoroethane		30			
Triethylamine		1.5			
tris-(2,3-Dibromopropyl) Phosphate		0.10			
Vernolate		1.4			
Vinyl Chloride		6.0			
Xylenes (sum of o-,m-,p-xylene concentrations)		30			

STATE OF ARKANSAS
Department of Pollution Control and Ecology
P.O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-682-0744

1711

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD073027609
Manifest Document No. 16940
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Industrial Service Corporation
1633 S. Marsh Avenue
Kansas City, MO 64126
4. Generator's Phone ( ) 913-631-330 Attn: Ron Wood

A. State Manifest Document Number AR- 1016940
B. State Generator's ID H-931

5. Transporter 1 Company Name ~~Industrial Service Corp~~ Tri State Env.
6. US EPA ID Number ~~MOD073027609~~ TX0000990032
C. State Transporter's ID H- ~~1664~~
D. Transporter's Phone ~~913-631-3300~~
7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's Phone (800) 960-0701
F. Transporter's Phone

9. Designated Facility Name and Site Address
Rineco
1007 Vulcan Rd.-Haskell
Benton, AR 72015
10. US EPA ID Number ARD981057870
G. State Facility's ID
H. Facility's Phone ~~501-778-9089~~

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Environmentally Hazardous Substance, Liquid, N.O.S. (Tetrachloroethylene) 9 UN3082 PGIII	001	TT	4000	G	D039
b.					
c.					
d.					

J. Additional Description for Materials Listed Above
a. 9809-06180 ERG#171 (Used Oil Sludge)

K. Emergency Response Information.
Ron Wood
913-631-3300

if no alternate TSDF, return to generat Pick Up Date: Dec 1-27-99 7AM Load # ~~27982~~ 98246

15. Special Handling Instructions and Additional Information
Mail all invoices, original manifests, Certificates of Destruction to: Deffenbaugh Industries Attn: Ron Wood
18181 West 53rd Street
Shawnee, KS 66217

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Arkansas state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Ronald W. Wood
Signature:
Month Day Year: 02 03 99

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robert Bates
Signature: Robert Bates
Month Day Year: 02 02 99

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: DALE BALLARD
Signature: Dale Ballard
Month Day Year: 02 04 99

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

THE GENERATOR MUST RETAIN AT LEAST TWO (2) COPIES (NOT MORE THAN THREE) OF THE HAZARDOUS WASTE SHIPMENT ONCE DELIVERED THE TRANSPORTER MUST RETAIN THIS ORIGINAL COPY TO THE GENERATOR

RINECO LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Generator	Industrial Service Corp.	EPA ID #	MOD073027609
EPA Codes	D039	State Man. Doc. #	AR-1016940
		Man. Doc. #	
		Profile #	9809-06180
		Line Item	11a

EPA Waste Codes		Waste Description & Treatment/ Regulatory Subcategory NON-WASTEWATER	Concentration in mg/l or Technology Code
	D001	Ignitable characteristic wastes,except for 261.21(a)(1) High TOC subcategory that are managed in Non-CWA/nonCWA equivalent/non class I SDWA systems.	DEACT and meet 268.48 standards or RORGS; or CMBST
	D001	High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1)-greater than or equal to 10% TOC.	RORGS; or CMBST; or POLYM
	D002	Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.	DEACT & meet 268.48 standards

D004-D011 Heavy Metals Expressed in Concentrations of mg/l (TCLP) and must meed 268.48 Standards. (NON-WASTEWATER)

	D004 Arsenic 5.0		D008 Lead 0.75
	D005 Barium 21		D009 Mercury 0.20 low mercury subcategory
	D006 Cadmium 0.11		D010 Selenium 5.7
	D007 Chromium 0.60		D011 Silver 0.14

D012-D043 Concentrations Expressed in mg/kg, and Must Meet 268.48 Standards. (NON-WASTEWATER)

	D012 Endrin 0.13		D024 m-cresol 5.6		D036 Nitrobenzene 14
	D013 Lindane 0.066		D025 p-cresol 5.6		D037 Pentachlorophenol 7.4
	D014 Methoxychlor 0.18		D026 Cresol Mixed Isomer 11.2		D038 Pyridine 16
	D015 Toxaphene 2.6		D027 p-dichlorobenzene 6.0	XXX	D039 Tetrachloroethylene 6.0
	D016 2,4 D 10		D028 1,2-dichloroethane 6.0		D040 Trichloroethylene 6.0
	D017 2,4,5-TP Silvex 7.9		D029 1,1-dichloroethylene 6.0		D041 2,4,5-Trichlorophenol 7.4
	D018 Benzene 10		D030 2,4-dinitrotoluene 140		D042 2,4,6-Trichlorophenol 7.4
	D019 Carbon Tetrachloride 6.0		D031 Heptachlor & epoxides 0.066		D043 Vinyl Chloride 6.0
	D020 Chlordane 0.26		D032 Hexachlorobenzene 10		
	D021 Chlorobenzene 6.0		D033 Hexachlorobutadiene 5.6		
	D022 Chloroform 6.0		D034 Hexachloroethane 30		
	D023 o-cresol 5.6		D035 Methyl Ethyl Ketone 36		

F001-F005 Spent Solvents; concentrations expressed in mg/kg (NON-WASTEWATER) F003-F005 Non-Wastewater spent solvents expressed in mg/l (TCLP)

	Acetone 160		Isobutyl Alcohol 170		Carbon disulfide 4.8
	Benzene 10		Methylene Chloride 30		Cyclohexanone 0.75
	N-butyl alcohol 2.6		Methyl Ethyl Ketone 36		Methanol 0.75
	carbon tetrachloride 6.0		Methyl Isobutyl Ketone 33		
	chlorobenzene 6.0		Nitrobenzene 14		
	o-cresol 5.6		Pyridine 16		
	m-cresol 5.6		Tetrachloroethylene 6.0		
	p-cresol 5.6		Toluene 10		
	Cresol mixed isomers 11.2		111-Trichloroethane 6.0		
	O - Dichlorobenzene 6.0		112-Trichloroethane 6.0		
	Ethyl Acetate 33		112-Trichloro-122-trifluoroethane 30		
	Ethyl Benzene 10		Trichloroethylene 6.0		
	Ethyl Ether 160		Trichloromonofluoromethane 30		
			Xylene (mixed isomers) 30		

08/19/98 SC.

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Generator Name: Industrial Service Corp. **Rineco Profile #** 9809-06180

Manifest Doc. #: AR-10169:40 **Manifest Doc. #:**

f the specified treatment technology of "DEACT" and meet 268.48 Standard" is identified, then each underlying hazardous constituent present in the waste he point of generation that is at a level above the F039 constituent specific treatment standard must be listed. Please check the box next to each constituen resent to note the constituent(s) that must be managed under 40 CF268.7 .

Constituent	Present	NWW	Constituent	Present	NWW
I. Organic Constituents	Check Here	Mg/kg3		Check Here	Mg/kg3
A2213		1.4	Chlordane (alpha & gamma isomers)		0.26
Acenaphthene		3.4	p-Chloroaniline		16
Acenaphthylene		3.4	Chlorobenzene		6.0
Acetone		160	Chlorobenzilate		NA
Acetonitrile		38	2-Chloro-1,3-butadiene		0.28
Acetophenone		9.7	Chlorodibromomethane		15
2-Acetylaminofluorene		140	Chloroethane		6.0
Acrolein		NA	bis (2-Chloroethoxy) methane		7.2
Acrylamide		23	bis (2-Chloroethyl) ether		6.0
Acrylonitrile		84	2-Chloroethyl Vinyl Ether		NA
Aldicarb Sulfone		0.28	Chloroform		6.0
Aldrin		0.066	bis (2-Chloroisopropyl) ether		7.2
4-Aminobiphenyl		NA	p-Chloro-m-cresol		14
Aniline		14	Chloromethane / Methyl Chloride		30
Anthracene		3.4	2-Chloronaphthalene		5.6
Aramite		NA	2-Chlorophenol		5.7
Barban		1.4	3-Chloropropylene		30
[illegible]carb		1.4	Chrysene		3.4
Benthiocarb Phenol		1.4	o-Cresol		5.6
Benomyl		1.4	m-Cresol		5.6
Benz (a) anthracene		3.4	p-Cresol		5.6
Benzal Chloride		6.0	m-Cumenyl Methylcarbamate		1.4
Benzene		10	Cyclohexanone		0.75 mg/L TCLP
Benzo (b) fluoranthene		6.8	o, p'- DDD		0.087
Benzo (k) fluoranthene		6.8	p, p'- DDD		0.087
Benzo (g,h,i) perylene		1.8	o, p'- DDE		0.087
Benzo (a) pyrene		3.4	p, p'- DDE		0.087
alpha-BHC		0.066	o,p'-DDT		0.087
beta-BHC		0.066	p, p'- DDT		0.087
delta-BHC		0.066	Dibenz (a,h) anthracene		8.2
gamma-BHC		0.066	Dibenz (a, e) pyrene		NA
Bromodichloromethane		15	1, 2-Dibromo-3-chloropropane		15
Bromomethane / Methyl Bromide		15	1, 2-Dibromoethane/Ethylene Dibromide		15
4-bromophenyl Phenyl Ether		15	Dibromomethane		15
N-butyl Alcohol		2.6	m,-Dichlorobenzene		6.0
Butyl Benzyl Phthalate		28	o-Dichlorobenzene		6.0
Butylate		1.4	p-Dichlorobenzene		6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		2.5	Dichlorodifluoromethane		7.2
Carbaryl		0.14	1, 1-Dichloroethane		6.0
Carbenzadim		1.4	1, 2-Dichloroethane		6.0
Carbofuran		0.14	1, 1-Dichloroethylene		6.0
Carbofuran Phenol		1.4	trans-1, 2-Dichloroethylene		30
[illegible] Disulfide		4.8 mg/l. TCLP	2, 4-Dichlorophenol		14
[illegible] Tetrachloride		6.0	2, 6-Dichlorophenol		14
Carbosulfan		1.4	2, 4-Dichlorophenoxyacetic Acid/2, 4-D		10

Revised 8/98 Sdc

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Constituent	Present Check Here	NWW Mg/kg3	Constituent	Present Check Here	NWW Mg/kg3
1 [illegible]nic Constituents Cont'd					
1, 2-Dichloropropane		18	HxCDFs (All Hexachlorodibenzofurans)		0.001
cis-1, 3-Dichloropropylene		18	Indeno (1,2,3-c,d) pyrene		3.4
trans-1, 3-Dichloropropylene		18	Iodomethane		65
Dieldrin		0.13	Isobutyl Alcohol		170
Diethyl Phthalate		28	Isodrin		0.066
Diethylene Glycol, Dicarbamate		1.4	Isolan		1.4
p-Dimethylaminoazobenzene		NA	Isosafrole		2.6
2-4-Dimethyl Phenol		14	Kepone		0.13
Dimethyl Phthalate		28	Methacrylonitrile		84
Dimetilan		1.4	Methanol		0.75 mg/L TCLP
Di-n-butyl Phthalate		28	Methapyrilene		1.5
1, 4-Dinitrobenzene		2.3	Methiocarb		1.4
4, 6-Dinitro-o-cresol		160	Methomyl		0.14
2, 4-Dinitrophenol		160	Methoxychlor		0.18
2, 4-Dinitrotoluene		140	Methyl Ethyl Ketone		36
2, 6-Dinitrotoluene		28	Methyl Isobutyl Ketone		33
Di-n-octyl Phthalate		28	Methyl Methacrylate		160
Di-n-propylnitrosamine		14	Methyl Methansulfonate		NA
1, 4-Dioxane		170	Methyl Parathion		4.6
Diphenylamine		13	3-Methylcholanthrene		15
Diphenylnitrosamine		13	4, 4-Methylene bis (2-chloroaniline)		30
1, 2-Diphenylhydrazine		NA	Methylene Chloride		30
Disulfoton		6.2	Metolcarb		1.4
[illegible]carbamates (total)		28	Mexacarbate		1.4
[illegible]ifan I		0.066	Molinate		1.4
Endosulfan II		0.13	Naphthalene		5.6
Endosulfan Sulfate		0.13	2-Naphthylamine		NA
Endrin		0.13	o-Nitroaniline		14
Endrin Aldehyde		0.13	p-Nitroaniline		28
EPTC		1.4	Nitrobenzene		14
Ethyl Acetate		33	5-Nitro-o-toluidine		28
Ethyl Benzene		10	o-Nitrophenol		13
Ethyl Cyanide/Propanenitrile		360	p-Nitrophenol		29
Ethyl Ether		160	N-Nitrosodiethylamine		28
Ethyl Methacrylate		160	N-Nitrosodimethylamine		2.3
Ethylene Oxide		NA	N-Nitroso-di-n-butylamine		17
bis (2-Ethylhexyl) Phthalate		28	N-Nitrosomethylethylamine		2.3
Famphur		15	N-Nitrosomorpholine		2.3
Fluoranthene		3.4	N-Nitrosopiperidine		35
Fluorene		3.4	N-Nitrosopyrrolidine		35
Formetanate Hydrochloride		1.4	Oxamyl		0.28
Formparanate		1.4	Parathion		4.6
Heptachlor		0.066	Total PCBs (Sum of all PCB isomers, or all Aroclors)		10
Heptachlor Epoxide		0.066	Pebulate		1.4
Hexachlorobenzene		10	Pentachlorobenzene		10
Hexachlorobutadiene		5.6	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.001
Hexachlorocyclopentadiene		2.4	PeCDFs (All Pentachlorodibenzofurans)		0.001
Hexachloroethane		30	Pentachloroethane		6.0
[illegible]xachloropropylene		30	Pentachloronitrobenzene		4.8
[illegible]DDs (All Hexachlorodibenzo-p-dioxins)		0.001	Pentachlorophenol		7.4

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Constituent	Present Check Here	NWW Mg/kg3	Constituent	Present Check Here	NWW Mg/kg3
I. Organic Constituents Cont'd			**II. Inorganic Constituents**		
Phenacetin		16	Antimony		1.15 mg/L TCLP
Phenanthrene		5.5	Arsenic		5.0 mg/L TCLP
Phenol		6.2	Barium		21 mg/L TCLP
o-Phenylenediamine		5.6	Beryllium		1.22 mg/L TCLP
Phorate		4.6	Cadmium		0.11 mg/L TCLP
Phthalic Acid		28	Chromium (Total)		0.60 mg/L TCLP
Phthalic Anhydride		28	Cyanides (Total)		590
Physostigmine		1.4	Cyanides (Amenable)		30
Physostigmine Salicylate		1.4	Fluoride		NA
Promecarb		1.4	Lead		0.75 mg/L TCLP
Pronamide		1.5	Mercury-Nonwastewater from retort		0.20 mg/L TCLP
Propham		1.4	Mercury-All Others		0.025 mg/L TCLP
Propoxur		1.4	Nickel		11 mg/L TCLP
Prosulfocarb		1.4	Selenium		5.7 mg/L TCLP
Pyrene		8.2	Silver		0.14 mg/L TCLP
Pyridine		16	Sulfide		NA
Safrole		22	Thallium		0.20 mg/L TCLP
Silvex / 2,4,5-TP		7.9	Vanadium		1.6 mg/L TCLP
1,2,4,5-Tetrachlorobenzene		14	Zinc		4.3 mg/L TCLP
TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.001			
TCDFs (All Tetrachlorodibenzofurans)		0.001			
1,1,1,2-Tetrachloroethane		6.0			
1,1,2,2-Tetrachloroethane		6.0			
Tetrachloroethylene		6.0			
2,3,4,6-Tetrachlorophenol		7.4			
Thiodicarb		1.4			
Thiophanate-methyl		1.4			
Tirpate		0.28			
Toluene		10			
Toxaphene		2.6			
Triallate		1.4			
Tribromomethane/Bromoform		15			
2,4,6-Tribromophenol		7.4			
1,2,4-Trichlorobenzene		19			
1,1,1-Trichloroethane		6.0			
1,1,2-Trichloroethane		6.0			
Trichloroethylene		6.0			
Trichloromonofluoromethane		30			
2,4,5-Trichlorophenoxyacetic Acid/2,4,5-T		7.4			
2,4,6-Trichlorophenol		7.4			
2,4,5-Trichlorophenol		7.9			
1,2,3-Trichloropropane		30			
1,1,2-Trichloro-2,2,2-trifluoroethane		30			
Triethylamine		1.5			
Tris-(2,3-Dibromopropyl) Phosphate		0.10			
Vernolate		1.4			
Vinyl Chloride		6.0			
Xylenes (sum of o-,m-,p-xylene concentrations)		30			

STATE OF ARKANSAS
Department of Pollution Control and Ecology
P.O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-682-0744

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609
Manifest Document No.: 16941
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Industrial Service Corporation
1633 S. Marsh Avenue
Kansas City, MO 64126
4. Generator's Phone (913-631-330 Attn: Ron Wood

A. State Manifest Document Number: AR- 1016941
B. State Generator's ID:

5. Transporter 1 Company Name: Industrial Service Corporation
6. US EPA ID Number: MOD073027609
C. State Transporter's ID: H- ~~1664~~ 931
D. Transporter's Phone: 913-631-3300

7. Transporter 2 Company Name: HUB CITY ENVIRONMENTAL GROUP
8. US EPA ID Number: TX0000992032
E. State Transporter's ID: H- ~~1664~~ 931
F. Transporter's Phone: 281-997-0070

9. Designated Facility Name and Site Address
Rineco
1007 Vulcan Rd.-Haskell
Benton, AR 72015
10. US EPA ID Number: ARD981057870
G. State Facility's ID: VS
H. Facility's Phone: 501/778-9089

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Environmentally Hazardous Substance, Liquid, N.O.S. (Tetrachloroethylene) 9 UN3082 PGIII	001	TT	4000-	G	D039
b.					
c.					
d.					

J. Additional Description for Materials Listed Above
a. 9809-06180 ERG#171 (Used Oil Sludge)

if no alternate TSDF, return to generator Pick Up Date: Del. 1-25-99 9AM Load # 27937

K. Emergency Response Information:
Ron Wood
913-631-3300

15. Special Handling Instructions and Additional Information
Mail all invoices, original manifests, Certificates of Destruction to: Deffenbaugh Industries Attn: Ron Wood
18181 West 53rd Street
Shawnee, KS 66217

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Arkansas state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Ronald W. Wood
Signature: Ronald W. Wood
Month Day Year: 01 24 99

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mark Lomenick
Signature: Mark Lomenick
Month Day Year: 01 24 99

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOE BOHANNON
Signature: Joe Bohannon
Month Day Year: 01 25 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: VALE BALLARD
Signature: Vale Ballard
Month Day Year: 01 26 99

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

THE ORIGINAL AND NOT LESS THAN TWO (2) COPIES MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT ONCE DELIVERED THE ORIGINAL COPY TO THE GENERATOR

STATE OF ARKANSAS
Department of Pollution Control and Ecology
P.O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-682-0744

6

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609
Manifest Document No.: 16141
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Industrial Service Corporation
1633 S. Marsh Avenue
Kansas City, MO 64126
Attn: Ron Wood

4. Generator's Phone (913) 631-3300

A. State Manifest Document Number: AR- 1016941
B. State Generator's ID:

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]
C. State Transporter's ID: H- [illegible]
D. Transporter's Phone: 913-631-3300

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID: H- [illegible]
F. Transporter's Phone: 281-997-0070

9. Designated Facility Name and Site Address: Rineco
1007 Vulcan Rd.-Haskell
Benton, AR 72015
10. US EPA ID Number: TX000[illegible]
ARD981057870
G. State Facility's ID: VS
H. Facility's Phone: 501/778-9089

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Environmentally Hazardous Substance, Liquid, N.O.S. (Tetrachloroethylene) 9 UN3082 PGIII	001	TT	4000	G	D039
b.					
c.					
d.					

J. Additional Description for Materials Listed Above
a. 9809-06180 ERG#171 (Used Oil Sludge)

if no alternate TSDF, return to generator. Pick Up Date: Dec 1-25-99 9AM Load # 27937

K. Emergency Response Information:
Ron Wood
913-631-3300

15. Special Handling Instructions and Additional Information
Mail all invoices, original manifests, Certificates of Destruction to: Deffenbaugh Industries Attn: Ron Wood
18181 West 53rd Street
Shawnee, KS 66217

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Arkansas state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year: 01 [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Joe Bohannon
Signature: [illegible]
Month Day Year: 01 [illegible]

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year:

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

GENERATOR INITIAL COPY

RINECO
8[illegible] ulcan Rd. Building 300 - Haskell
Benton, A[illegible] 72015
501-778-9089 (FAX) 501-778-8505 or 501-778-0201

Manifest Correction Report

TE: February 2, 1999 12:26 PM

ion / Sales: N02 - Charlie Hayes

NERATOR: Industrial Service

Y: ST: Kansas City, MO

NERATOR CONTACT: Ron Wood 913-631-6647

NIFEST #: AR-1016941

RRECTIONS MADE:

k F - Added telephone number for Hub City 281-997-0070

ttached is a copy of the manifest with the suggested corrections***

'e apologize for any inconvenience. If you have any questions, please call me at the number above.

Angela Thomason
Customer Service Representative

RINECO REGULATORY APPROVAL

If you are a broker, your signature below is certifying that you are authorized as an agent of the generator by contract or agreement to make additions or corrections to Manifests and/or Land Disposal Restrictions.

ase complete this portion

OMPANY NAME Industrial Service Corp.

RINTED OR TYPED NAME: Ron Wood DATE: 2-2-99

GNATURE: Angela for Ron Wood (verbal on 1-28-99)

REV. DATE: 5/4/93

r signature allows RINECO to make the necessary changes to your paperwork.

e[illegible]ing orginal copy of manifest may be delayed if corrections are not l[illegible] promptly. Please fax back as soon as possible.

RINECO LAND DISPOSAL RESTRICTION NOTIFICATION FORM

enerator	Industrial Service Corp.	EPA ID #	MOD073027609
PA Codes	D039	State Man. Doc. #	AR-1016941
		Man. Doc. #	
		Profile #	9809-06180
		Line Item	11a

PA Waste Codes	Waste Description & Treatment/ Regulatory Subcategory	NON-WASTEWATER	Concentration in mg/l or Technology Code
	D001	Ignitable characteristic wastes,except for 261.21(a)(1) High TOC subcategory that are managed in Non-CWA/nonCWA equivalent/non class I SDWA systems.	DEACT and meet 268.48 standards or RORGS; or CMBST
	D001	High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1)-greater than or equal to 10% TOC.	RORGS; or CMBST; or POLYM
	D002	Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.	DEACT & meet 268.48 standards

D004-D011 Heavy Metals Expressed in Concentrations of mg/l (TCLP) and must meed 268.48 Standards. (NON-WASTEWATER)

	D004 Arsenic 5.0		D008 Lead 0.75
	D005 Barium 21		D009 Mercury 0.20 low mercury subcategory
	D006 Cadmium 0.11		D010 Selenium 5.7
	D007 Chromium 0.60		D011 Silver 0.14

D012-D043 Concentrations Expressed in mg/kg, and Must Meet 268.48 Standards. (NON-WASTEWATER)

	D012 Endrin 0.13		D024 m-cresol 5.6		D036 Nitrobenzene 14
	D013 Lindane 0.066		D025 p-cresol 5.6		D037 Pentachlorophenol 7.4
	D014 Methoxychlor 0.18		D026 Cresol Mixed Isomer 11.2		D038 Pyridine 16
	D015 Toxaphene 2.6		D027 p-dichlorobenzene 6.0	XXX	D039 Tetrachloroethylene 6.0
	D016 2,4 D 10		D028 1,2-dichloroethane 6.0		D040 Trichloroethylene 6.0
	D017 2,4,5-TP Silvex 7.9		D029 1,1-dichloroethylene 6.0		D041 2,4,5-Trichlorophenol 7.4
	D018 Benzene 10		D030 2,4-dinitrotoluene 140		D042 2,4,6-Trichlorophenol 7.4
	D019 Carbon Tetrachloride 6.0		D031 Heptachlor & epoxides 0.066		D043 Vinyl Chloride 6.0
	D020 Chlordane 0.26		D032 Hexachlorobenzene 10		
	D021 Chlorobenzene 6.0		D033 Hexachlorobutadiene 5.6		
	D022 Chloroform 6.0		D034 Hexachloroethane 30		
	D023 o-cresol 5.6		D035 Methyl Ethyl Ketone 36		

F001-F005 Spent Solvents; concentrations expressed in mg/kg (NON-WASTEWATER) F003-F005 Non-Wastewater spent solvents expressed in mg/l (TCLP)

	Acetone 160		Isobutyl Alcohol 170		Carbon disulfide 4.8
	Benzene 10		Methylene Chloride 30		Cyclohexanone 0.75
	N-butyl alcohol 2.6		Methyl Ethyl Ketone 36		Methanol 0.75
	carbon tetrachloride 6.0		Methyl Isobutyl Ketone 33		
	chlorobenzene 6.0		Nitrobenzene 14		
	o-cresol 5.6		Pyridine 16		
	m-cresol 5.6		Tetrachloroethylene 6.0		
	p-cresol 5.6		Toluene 10		
	Cresol mixed isomers 11.2		111-Trichloroethane 6.0		
	O - Dichlorobenzene 6.0		112-Trichloroethane 6.0		
	Ethyl Acetate 33		112-Trichloro-122-trifluoroethane 30		
	Ethyl Benzene 10		Trichloroethylene 6.0		
	Ethyl Ether 160		Trichloromonofluoromethane 30		
			Xylene (mixed isomers) 30		

08/19/98 SC.

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Generator Name: Industrial Service Corp. **Rineco Profile #** 9809-06180

Manifest Doc. #: AR-1016940 1 **Manifest Doc. #:**

If the specified treatment technology of "DEACT" and meet 268.48 Standard" is identified, then each underlying hazardous constituent present in the waste the point of generation that is at a level above the F039 constituent specific treatment standard must be listed. Please check the box next to each constituen present to note the constituent(s) that must be managed under 40 CF268.7 .

Constituent	Present Check Here	NWW Mg/kg3	Constituent	Present Check Here	NWW Mg/kg3
I. Organic Constituents					
A2213		1.4	Chlordane (alpha & gamma isomers)		0.26
Acenaphthene		3.4	p-Chloroaniline		16
Acenaphthylene		3.4	Chlorobenzene		6.0
Acetone		160	Chlorobenzilate		NA
Acetonitrile		38	2-Chloro-1,3-butadiene		0.28
Acetophenone		9.7	Chlorodibromomethane		15
2-Acetylaminofluorene		140	Chloroethane		6.0
Acrolein		NA	bis (2-Chloroethoxy) methane		7.2
Acrylamide		23	bis (2-Chloroethyl) ether		6.0
Acrylonitrile		84	2-Chloroethyl Vinyl Ether		NA
Aldicarb Sulfone		0.28	Chloroform		6.0
Aldrin		0.066	bis (2-Chloroisopropyl) ether		7.2
4-Aminobiphenyl		NA	p-Chloro-m-cresol		14
Aniline		14	Chloromethane / Methyl Chloride		30
Anthracene		3.4	2-Chloronaphthalene		5.6
Aramite		NA	2-Chlorophenol		5.7
Barban		1.4	3-Chloropropylene		30
[illegible]carb		1.4	Chrysene		3.4
Bendiocarb Phenol		1.4	o-Cresol		5.6
Benomyl		1.4	m-Cresol		5.6
Benz (a) anthracene		3.4	p-Cresol		5.6
Benzal Chloride		6.0	m-Cumenyl Methylcarbamate		1.4
Benzene		10	Cyclohexanone		0.75 mg/L TCLP
Benzo (b) fluoranthene		6.8	o, p'- DDD		0.087
Benzo (k) fluoranthene		6.8	p, p'- DDD		0.087
Benzo (g,h,i) perylene		1.8	o, p'- DDE		0.087
Benzo (a) pyrene		3.4	p, p'- DDE		0.087
alpha-BHC		0.066	o,p'-DDT		0.087
beta-BHC		0.066	p, p'- DDT		0.087
delta-BHC		0.066	Dibenz (a,h) anthracene		8.2
gamma-BHC		0.066	Dibenz (a, e) pyrene		NA
Bromodichloromethane		15	1, 2-Dibromo-3-chloropropane		15
Bromomethane / Methyl Bromide		15	1, 2-Dibromoethane/Ethylene Dibromide		15
4-bromophenyl Phenyl Ether		15	Dibromomethane		15
N-butyl Alcohol		2.6	m-Dichlorobenzene		6.0
Butyl Benzyl Phthalate		28	o-Dichlorobenzene		6.0
Butylate		1.4	p-Dichlorobenzene		6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		2.5	Dichlorodifluoromethane		7.2
Carbaryl		0.14	1, 1-Dichloroethane		6.0
Carbenzadim		1.4	1, 2-Dichloroethane		6.0
Carbofuran		0.14	1, 1-Dichloroethylene		6.0
Carbofuran Phenol		1.4	trans-1, 2-Dichloroethylene		30
[illegible]n Disulfide		4.8 mg/L TCLP	2, 4-Dichlorophenol		14
[illegible]on Tetrachloride		6.0	2, 6-Dichlorophenol		14
Carbosulfan		1.4	2, 4-Dichlorophenoxyacetic Acid/2, 4-D		10

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Constituent	Present Check Here	NWW Mg/kg3	Constituent	Present Check Here	NWW Mg/kg3
[illegible]ic Constituents Cont'd					
1, 2-Dichloropropane		18	HxCDFs (All Hexachlorodibenzofurans)		0.001
cis-1, 3-Dichloropropylene		18	Indeno (1,2,3-c,d) pyrene		3.4
trans-1, 3-Dichloropropylene		18	Iodomethane		65
Dieldrin		0.13	Isobutyl Alcohol		170
Diethyl Phthalate		28	Isodrin		0.066
Diethylene Glycol, Dicarbamate		1.4	Isolan		1.4
p-Dimethylaminoazobenzene		NA	Isosafrole		2.6
2-4-Dimethyl Phenol		14	Kepone		0.13
Dimethyl Phthalate		28	Methacrylonitrile		84
Dimetilan		1.4	Methanol		0.75 mg/L TCLP
Di-n-butyl Phthalate		28	Methapyrilene		1.5
1, 4-Dinitrobenzene		2.3	Methiocarb		1.4
4, 6-Dinitro-o-cresol		160	Methomyl		0.14
2, 4-Dinitrophenol		160	Methoxychlor		0.18
2, 4-Dinitrotoluene		140	Methyl Ethyl Ketone		36
2, 6-Dinitrotoluene		28	Methyl Isobutyl Ketone		33
Di-n-octyl Phthalate		28	Methyl Methacrylate		160
Di-n-propylnitrosamine		14	Methyl Methansulfonate		NA
1, 4-Dioxane		170	Methyl Parathion		4.6
Diphenylamine		13	3-Methylchlolanthrene		15
Diphenylnitrosamine		13	4, 4-Methylene bis (2-chloroaniline)		30
1, 2-Diphenylhydrazine		NA	Methylene Chloride		30
Disulfoton		6.2	Metolcarb		1.4
[illegible]rbamates (total)		28	Mexacarbate		1.4
[illegible]an I		0.066	Molinate		1.4
Endosulfan II		0.13	Naphthalene		5.6
Endosulfan Sulfate		0.13	2-Naphthylamine		NA
Endrin		0.13	o-Nitroaniline		14
Endrin Aldehyde		0.13	p-Nitroaniline		28
EPTC		1.4	Nitrobenzene		14
Ethyl Acetate		33	5-Nitro-o-toluidine		28
Ethyl Benzene		10	o-Nitrophenol		13
Ethyl Cyanide/Propanenitrile		360	p-Nitrophenol		29
Ethyl Ether		160	N-Nitrosodiethylamine		28
Ethyl Methacrylate		160	N-Nitrosodimethylamine		2.3
Ethylene Oxide		NA	N-Nitroso-di-n-butylamine		17
bis (2-Ethylhexyl) Phthalate		28	N-Nitrosomethylethylamine		2.3
Famphur		15	N-Nitrosomorpholine		2.3
Fluoranthene		3.4	N-Nitrosopiperidine		35
Fluorene		3.4	N-Nitrosopyrrolidine		35
Formetanate Hydrochloride		1.4	Oxamyl		0.28
Formparanate		1.4	Parathion		4.6
Heptachlor		0.066	Total PCBs (Sum of all PCB isomers, or all Arochlors)		10
Heptachlor Epoxide		0.066	Pebulate		1.4
Hexachlorobenzene		10	Pentachlorobenzene		10
Hexachlorobutadiene		5.6	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.001
Hexachlorocyclopentadiene		2.4	PeCDFs (All Pentachlorodibenzofurans)		0.001
Hexachloroethane		30	Pentachloroethane		6.0
[illegible]chloropropylene		30	Pentachloronitrobenzene		4.8
[illegible]Ds (All Hexachlorodibenzo-p-dioxins)		0.001	Pentachlorophenol		7.4

268.48 UNIVERSAL TREATMENT STANDARDS TABLE FOR UNDERLYING HAZARDOUS CONSTITUENTS

Constituent	Present	NWW	Constituent	Present	NWW
I. Organic Constituents Cont'd	**Check Here**	**Mg/kg3**	**II. Inorganic Constituents**	**Check Here**	**Mg/kg3**
Phenacetin		16	Antimony		1.15 mg/L TCLP
Phenanthrene		5.6	Arsenic		5.0 mg/L TCLP
Phenol		6.2	Barium		21 mg/L TCLP
o-Phenylenediamine		5.6	Beryllium		1.22 mg/L TCLP
Phorate		4.6	Cadmium		0.11 mg/L TCLP
Phthalic Acid		28	Chromium (Total)		0.60 mg/L TCLP
Phthalic Anhydride		28	Cyanides (Total)		590
Physostigmine		1.4	Cyanides (Amenable)		30
Physostigmine Salicylate		1.4	Fluoride		NA
Promecarb		1.4	Lead		0.75 mg/L TCLP
Pronamide		1.5	Mercury-Nonwastewater from retort		0.20 mg/L TCLP
Propham		1.4	Mercury-All Others		0.025 mg/L TCLP
Propoxur		1.4	Nickel		11 mg/L TCLP
Prosulfocarb		1.4	Selenium		5.7 mg/L TCLP
Pyrene		8.2	Silver		0.14 mg/L TCLP
Pyridine		16	Sulfide		NA
Safrole		22	Thallium		0.20 mg/L TCLP
Silvex / 2,4,5-TP		7.9	Vanadium		1.6 mg/L TCLP
1,2,4,5-Tetrachlorobenzene		14	Zinc		4.3 mg/L TCLP
TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.001			
TCDFs (All Tetrachlorodibenzofurans)		0.001			
1,1,1,2-Tetrachloroethane		6.0			
[illegible]2-Tetrachloroethane		6.0			
[illegible]chloroethylene		6.0			
2,3,4,6-Tetrachlorophenol		7.4			
Thiodicarb		1.4			
Thiophanate-methyl		1.4			
Tirpate		0.28			
Toluene		10			
Toxaphene		2.6			
Triallate		1.4			
Tribromomethane/Bromoform		15			
2,4,6-Tribromophenol		7.4			
1,2,4-Trichlorobenzene		19			
1,1,1-Trichloroethane		6.0			
1,1,2-Trichloroethane		6.0			
Trichloroethylene		6.0			
Trichloromonofluoromethane		30			
2,4,5-Trichlorophenoxyacetic Acid/2,4,5-T		7.4			
2,4,6-Trichlorophenol		7.4			
2,4,5-Trichlorophenol		7.9			
1,2,3-Trichloropropane		30			
1,1,2-Trichloro-2,2,2-trifluoroethane		30			
Triethylamine		1.5			
tris-(2,3-Dibromopropyl) Phosphate		0.10			
Vernolate		1.4			
Vinyl Chloride		6.0			
[illegible]ylenes (sum of o-,m-,p-xylene concentrations)		30			

SECTION H

WASTE DISPOSITION
TANK B, TANK C, AND SOIL BORINGS

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

Form Approved OMB No. 2050-0039. Expires 9-30-99

...or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MOD073027609 — Manifest Document No.: 00002
2. Page 1 of 1

Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
INDUSTRIAL SERVICE CORP.
1633 South Marsh Avenue, Kansas City, MO 64126-
4. Generator's Phone (913) 631-3300

A. Missouri Manifest Document Number: [redacted]

5. Transporter 1 Company Name: Nortru Transportation Group
6. US EPA ID Number: MID021087275

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. MO. Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Solvent Recovery Corporation
716 Mulberry
Kansas City, MO 64101
10. US EPA ID Number: MOD000610768

G. State Facility's ID: RR0019
H. Facility's Phone: 816 474-1391

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (BENZENE, 1,2-DICHLOROETHANE) KR# 171, (EPA D018,D028)	021	DIT	660 00665	09 G	EPA WASTE CODE: D018 STATE: NONE
b.					EPA WASTE CODE: STATE:
c.					EPA WASTE CODE: STATE:
d.					EPA WASTE CODE: STATE:

J. Additional Information

a. [redacted]					
b. [redacted]					
c.					
d.					

K. HANDLING CODE (FACILITY USE ONLY) — COMMENTS

15. Special Handling Instructions and Additional Information: RETURN WASTE TO GENERATOR IF UNDELIVERABLE
EMERGENCY CONTACT: 913-631-3300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: AL SLAVIC — Signature: [signature] — Month Day Year: 06 09 04

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: DEBORAH GREEN — Signature: Deborah Green — Month Day Year: 06 09 04

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Date
Printed/Typed Name: — Signature: — Month Day Year:

GENERATOR — TRANSPORTER — FACILITY

GENERATOR COPY PART 6

SEE INSTRUCTIONS SHOULD PART 1&2 FAIL TO RETURN

EPA FORM 8700-22 (REV 9-96) MDNR-HWG 10 — PREVIOUS EDITIONS ARE OBSOLETE — CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST

SOLVENT RECOVERY CORPORATION

A Service Group of NORTRU, INC.
716 MULBERRY
KANSAS CITY, MO 64101
(816) 474-1391 MOD 000610766

PHILIP SERVICES CORP.

Prequal #:	W016236	Received on:	06/07/2000	Salesperson:	LWHITE
Status:	ACCEPTED 06/08/2000	Analyzed on:	/ /	Customer #:	
		Expires:	/ /	PO #:	

	Generator:	Customer:	Transporter:
Name:	INDUSTRIAL SERVICE CORP.	INDUSTRIAL SERVICE CORP.	Nortru Transportation Group
Address:	1633 South Marsh Avenue	1633 South Marsh Avenue	11700 Freud
	Kansas City, MO 64126-	Kansas City, MO 64126-	Detroit, MI 48214
Phone/fax:	913 631-3300, 913 631-6647	913 631-3300, 913 631-6647	313 824-5840, 313 824-5501
Contact:	Sean White	Sean White	Bill Qualls
EPA/St ID#:	MOD073027609 , 001813	MOD073027609 , 001813	MID021087275

Stream name: Wastewater from UST Removal — Process: M041
How generated: Removal of UST
Frequency: 7 Drums, Metal every One time only

Physical properties:

						Phys State:	LIQUID	BTU/lb:	N/A
Water React:	No	Pesticide:	No	Oxidizer:	No	Layers:	SINGLE	pH:	7.79
Shock Sens:	No	Herbicide:	No	Dioxin:	No	Water:	98.00	Flash pt:	NONE
Explosive:	No	Infect/Etologic:	No	NESHAP:	No	Chloride:	<5	Viscosity:	LOW
Phenolics:	No	OSHA Carcinogen:	No			Sulfides:	NT	Density:	8.30 lb/gal
Cyanides:	No	Radiation:	No			PCBs:	ND	Free Liq %:	0

Composition:	Concentration (%):	Supplemental Analysis:	Concentration (ppm):
1.			

Material disposition:
Conditions:

Handling info:

Manifest info:

DOT name:	HAZARDOUS WASTE, LIQUID, N.O.S.			Placards:	CLASS 9
Hazard class:	9	DOT ID#: NA3082	Packing group: III	Labels:	CLASS 9
Waste code(s):	D018,D028			Erg#:	171
State code(s):			RQ: 10		
Major: (Emerg. Info.):	BENZENE, 1,2-DICHLOROETHANE				

PLEASE REFERENCE PROFILE NUMBER ON DRUM AND IN SECTION J OF THE MANIFEST

This report will serve to inform you that Solvent Recovery Corp. and its affiliated firms have all the appropriate authorities, licenses, and permits for, and will accept your waste that has been characterized on 06/07/2000 and identified by Prequal # W016236.

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the posession of the generator has been disclosed.

Generator's Signature [signature] Date 06 09 00

PHILIP SERVICES - Solvent Recovery Corporation
RCRA Land Disposal Restriction Notification Form EZ - Page 1 of 2

Generator: INDUSTRIAL SERVICES CORP. **US EPA ID No.** MOD073027609

Philip Prequal No. W016236 **Manifest Doc. No.** _____

The wastes identified on this form are subject to the land disposal restrictions of 40 CFR Part 268. The wastes do not meet the treatment standards specified in Part 268, Subpart D or do not meet the applicable prohibition levels specified in 268.32. Pursuant to 40 CFR 268.7(a), the required information applicable to each waste is identified below (check all boxes that apply):

Treatability Group: ☐ Wastewater X Nonwastewater
(Wastewaters contain less than 1% filterable solids and less than 1% Total Organic Carbon)

☐ D001 Ignitable (except for High TOC) managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems
☐ D001 Ignitable (except for High TOC) managed in CWA/ CWA-equivalent/Class I SDWA systems
D001 High TOC Ignitable (greater than 10% total organic carbon)
☐ D002 Corrosive managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems
☐ D002 Corrosive managed in CWA/ CWA-equivalent/Class I SDWA systems
☐ D003 Reactive Sulfides based on 261.23(a)(5)
☐ D003 Reactive Cyanides based on 261.23(a)(5)
☐ D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems
☐ D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in CWA/ CWA-equivalent/Class I SDWA systems
☐ D003 Other Reactives based on 261.23(a)(1)

If D004-43 boxes are checked, complete and attach Form UC to address underlying hazardous constituents (unless these wastes are to be managed in CWA/CWA-equivalent/Class I SDWA systems):

☐ D004 Arsenic ☐ D005 Barium ☐ D006 Cadmium ☐ D006 Cadmium-containing batteries
☐ D007 Chromium ☐ D008 Lead ☐ D008 Lead acid batteries
☐ D009 High mercury inorganic (>260 mg/kg total), including incinerator residue and residues from RMERC
☐ D009 High-mercury organic (>260 mg/kg total), not including incinerator residue
☐ D009 Low-mercury (<260 mg/kg total) ☐ D009 All D009 wastewaters
☐ D010 Selenium ☐ D011 Silver

☐ D012 Endrin
☐ D013 Lindane
☐ D014 Methoxychlor
☐ D015 Toxaphene
☐ D016 2,4-D
☐ D017 2,4,5-TP (Silvex)
X D018 Benzene
☐ D019 Carbon tetrachloride
☐ D020 Chlordane
☐ D021 Chlorobenzene
☐ D022 Chloroform
☐ D023 *o*-Cresol
☐ D024 *m*-Cresol
☐ D025 *p*-Cresol
☐ D026 Cresols (Total)
☐ D027 *p*-Dichlorobenzene
X D028 1,2-Dichloroethane
☐ D029 1,1-Dichloroethylene
☐ D030 2,4-Dinitrotoluene
☐ D031 Heptachlor
☐ D032 Hexachlorobenzene
☐ D033 Hexachlorobutadiene
☐ D034 Hexachloroethane
☐ D035 Methyl ethyl ketone
☐ D036 Nitrobenzene
☐ D037 Pentachlorophenol
☐ D038 Pyridine
☐ D039 Tetrachloroethylene
☐ D040 Trichloroethylene
☐ D041 2,4,5-Trichlorophenol
☐ D042 2,4,6-Trichlorophenol
☐ D043 Vinyl chloride

In addition, the following wastes are included in this shipment:

☐ F001-F005 spent solvents. *(If this box is checked, complete the F001-F005 section on the back of this form. Check the hazardous waste number(s) that applies, and identify the constituents likely to be present in the waste.)*

The wastes identified on this form are subject to the land disposal restrictions of 40 CFR Part 268. The wastes comply with the treatment standards specified in 40 CFR Part 268.40 or meet the applicable prohibition levels specified in 40 CFR 268.32 or RCRA Section 3004(d). The required information applicable to each waste is identified below (check all boxes that apply):

F001-F005 Spent Solvents
Check the box(es) that applies; identify the individual constituents likely to be present.

Hazardous waste description	Regulated hazardous constituents	
☐ F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	*o*-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	*n*-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
☐ F004 Spent non-halogenated solvents	*m*-Cresol *p*-Cresol Nitrobenzene	*o*-Cresol Cresol-mixed isomers (cresylic acid)
☐ F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene

**The treatment standards for carbon disulfide, cyclohexanone, and methanol non-wastewaters are based on the TCLP and apply to spent solvent non-wastewaters containing only one, two, or all three of these constituents. The treatment standards for these three constituents do not apply when any of the other F001-F005 constituents are present in the waste.*

If this shipment carries additional waste codes that are not addressed above, identify them here:

EPA Waste Code	Subcategory (if applicable)	EPA Waste Code	Subcategory (if applicable)

Philip Services - Solvent Recovery Corporation
RCRA Land Disposal Restriction Notification Form UC

Generator: INDUSTRIAL SERVICES CORP. **US EPA ID No.** MOD073027609

Philip Prequal No. W016236 **Manifest Doc. No.**

In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.

In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:

☐ I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.

X I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified below and/or on the accompanying pages:

The determination of underlying hazardous constituents was based on:

☐ Generator's knowledge of the waste

X Analysis

CERTIFICATION STATEMENT

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Sub D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine imprisonment.

Al Scavik		060900
Printed Name	Signature	Date

I. Organic Constituents:

A2213	Anthracene	beta-BHC	Carbofuran phenol	2-Chloroethyl vinyl ether
Acenaphthene	Aramite	delta-BHC	Carbon disulfide	Chloroform
Acenaphthylene	Barban	gamma-BHC	Carbon tetrachloride	bis(2-Chloroisopropyl)ether
Acetone	Bendiocarb	Bromodichloromethane	Carbosulfan	p-Chloro-m-cresol
Acetonitrile	Bendiocarb	Bromomethane/Methyl bromide	Chlordane (alpha and gamma isomers)	Chloromethane/Methyl chloride
Acetophenone	Benomyl	4-Bromophenyl phenyl ether	p-Chloroaniline	2-Chloronaphthalene
2-Acetylaminofluorene	Benz(a)anthracene	n-Butylalcohol	Chlorobenzene	2-Chlorophenol
Acrolein	Benzal chloride	Butyl benzyl phthalate	Chlorobenzilate	3-Chloropropylene
Acrylamide	Benzene	Butylate	2-Chloro-1,3-butadiene	Chrysene
Acrylonitrile	Benzo(b)fluoranthene)	2-sec-Butyl-4,6-dinitrophenol/Dinoseb	Chlorodibromomethane	o-Cresol
Aldicarb sulfone	Benzo(k)fluoranthene	Carbaryl	Chloroethane	m-Cresol (difficult to distinguish from p-cresol)
Aldrin	Benzo(g,h,i)perylene	Carbenzadim	bis(2-Chloroethoxy)methane	p-Cresol (difficult to distinguish from m-cresol)
Aminobiphenyl	Benzo(a)pyrene	Carbofuran	bis(2-Chloroethyl)ether	
Aniline	alpha-BHC			

PHILIP SERVICES - Solvent Recovery Corporation
RCRA Land Disposal Restriction Notification Form UC

umenyl carbamate

Cycloate

Cyclohexanone

o,p'-DDD

p,p'-DDD

o,p'-DDE

p,p'-DDE

o,p'-DDT

p,p'-DDT

Dibenz(a,h)anthracene

Dibenz(a,e)pyrene

1,2-Dibromo-3-chloropropane

1,2-Dibromoethane/Ethylene dibromide

Dibromomethane

m-Dichlorobenzene

o-Dichlorobenzene

p-Dichlorobenzene

Dichlorodifluoromethane

1,1-Dichloroethane

1,2-Dichloroethane

Dichloroethylene

trans-1,2-Dichloroethylene

2,4-Dichlorophenol

2,6-Dichlorophenol

2,4-Dichlorophenoxyacetic acid/2,4-D

1,2-Dichloropropane

cis-1,3-Dichloropropylene

trans-1,3-Dichloropropylene

Dieldrin

Diethyl phthalate

Diethylene glycol, dicarbamate

p-Dimethylaminoazobenzene

2-4-Dimethyl phenol

Dimethyl phthalate

Dimetilan

Di-n-butyl phthalate

1,4-Dinitrobenzene

4,6-Dinitro-o-cresol

2,4-Dinitrophenol

Dinitrotoluene

2,6-Dinitrotoluene

Di-n-octyl phthalate

Di-n-propylnitrosamine

1,4-Dioxane

Diphenylamine (difficult to distinguish from diphenylnitrosamine)

Diphenylnitrosamine (difficult to distinguish from diphenylamine)

1,2-Diphenylhydrazine

Disulfoton

Dithiocarbamates (total)

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

EPTC

Ethyl acetate

Ethyl benzene

Ethyl cyanide/Propanenitrile

Ethyl ether

Ethyl methacrylate

Ethylene oxide

bis(2-Ethylhexyl) phthalate

Famphur

Fluoranthene

Fluorene

Formetanate hydrochloride

Formparanate

Heptachlor

Heptachlor epoxide

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Hexachloropropylene

HxCDDs (All Hexachlorodibenzo-p-dioxins)

HxCDFs (All Hexachlorodibenzofurans)

Indeno (1,2,3-c,d) pyrene

Iodomethane

3-Iodo-2-propynyl n-butylcarbamate

Isobutyl alcohol

Isodrin

Isolan

Isosafrole

Kepone

Methacrylonitrile

Methanol

Methapyrilene

Methomyl

Methoxychlor

Methyl ethyl ketone

Methyl isobutyl ketone

Methyl methacrylate

Methyl methanesulfonate

Methyl parathion

3-Methylcholanthrene

4,4-Methylene bis(2-chloroaniline

Methylene chloride

Metolcarb

Mexacarbate

Molinate

Naphthalene

2-Naphthylamine

o-Nitroaniline

p-Nitroaniline

Nitrobenzene

5-Nitro-o-toluidine

o-Nitrophenol

p-Nitrophenol

N-Nitrosodiethylamine

N-Nitrosodimethylamine

N-Nitroso-di-n-butylamine

N-Nitrosomethylethylamine

N-Nitrosomorpholine

N-Nitrosopiperidine

N-Nitrosopyrrolidine

Oxamyl

Parathion

Total PCBs (sum of all PCB isomers, or all Aroclors)

Pebulate

Pentachlorobenzene

PeCDDs (All Pentachlorodibenzo-p-dioxins)

PeCDFs (All Pentachlorodibenzofurans)

Pentachloroethane

Pentachloronitrobenzene

Pentachlorophenol

Phenacetin

Phenanthrene

Phenol

o-Phenylenediamine

Phorate

Phthalic acid

Phthalic anhydride

Physostigmine

Physostigmine salicylate

Promecarb

Pronamide

Propham

Propoxur

Prosulfocarb

Pyrene

Pyridine

Safrole

Silvex/2,4,5-TP

1,2,4,5-Tetrachlorobenzene

TCDDs (All Tetrachlorodibenzo-p-dioxins)

TCDFs (All Tetrachlorodibenzofurans)

1,1,1,2-Tetrachloroethane

1,1,2,2-Tetrachloroethane

Tetrachloroethylene

2,3,4,6-Tetrachlorophenol

Thiodicarb

Thiophanate-methyl

Tirpate

Toluene

Toxaphene

Triallate

Tribromomethane/Bromoform

1, 2, 4-Trichlorobenzene

1,1,1-Trichlorethane

1,1,2-Trichlorethane

Trichloroethylene

Trichloromonofluoromethane

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4,5-Trichlorophenoxyacetic acid/2,4,5-T

1,2,3-Trichloropropane

1,1,2-Trichloro-2,2,2-trifluoroethane

Triethylamine

tris-(2,3-Dibromopropyl) phosphate

Vernolate

Vinyl chloride

Xylenes-mixed isomers (sum of o-,m-, and p-xylenes)

II. Inorganic Constituents:

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium (Total)

Cyanides (Total)

Cyanides (Amenable)

Fluorides

Lead

Mercury—Nonwastewater from Retort

Mercury—All Others

Nickel

Selenium

Silver

Sulfide

Thallium

Vanadium

Zinc

Pace Analytical™

Pace Analytical Services, Inc.
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Lenexa, KS 66219
Phone 913 599 5665
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June 06, 2000

Mr. RODNEY MANN
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Dear Mr. MANN:

Enclosed are the results of analyses for sample(s)received by the laboratory on May 24, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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DATE: 06/06/00
PAGE: 1

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

Solid results are reported on a wet weight basis

Pace Sample No: 603500067 Date Collected: 05/24/00 Matrix: Water
Client Sample ID: TANK UNK Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Organics Prep								
Volatile Organics, TCLP Leach.		Method: EPA 8260			Prep Method: EPA 1311			
Date Leached	0.00		0	1.00	05/31/00	KBL		
Date Extracted					05/31/00			
Semivolatile Organics, TCLP		Method: EPA 8270			Prep Method: EPA 1311			
Date Extracted					05/31/00			
Metals								
RCRA Metals, ICP, TCLP Leach.		Method: EPA 6010			Prep Method: EPA 3010			
Arsenic	ND	ug/l	85	1.00	06/02/00	JAH	7440-38-2	
Barium	266	ug/l	4	1.00	06/02/00	JAH	7440-39-3	
Cadmium	ND	ug/l	5	1.00	06/02/00	JAH	7440-43-9	
Chromium	ND	ug/l	7	1.00	06/02/00	JAH	7440-47-3	
Lead	ND	ug/l	50	1.00	06/02/00	JAH	7439-92-1	
Selenium	ND	ug/l	100	1.00	06/02/00	JAH	7782-49-2	
Silver	42.4	ug/l	7	1.00	06/02/00	JAH	7440-22-4	
Date Digested					06/01/00			
Wet Chemistry								
pH		Method: EPA 150.1			Prep Method: EPA 150.1			
pH	5.88			1.00	05/25/00	JMO		
GC Semivolatiles								
PCBs in Water by 8082		Method: EPA 8082			Prep Method: EPA 3510			

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1781

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Pace Sample No: 603500067 Date Collected: 05/24/00 Matrix: Water
Client Sample ID: TANK UNK Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
PCB-1016 (Arochlor 1016)	ND	ug/l	1	1.00	06/02/00	JLO	12674-11-2	
PCB-1221 (Arochlor 1221)	ND	ug/l	1	1.00	06/02/00	JLO	11104-28-2	
PCB-1232 (Arochlor 1232)	ND	ug/l	1	1.00	06/02/00	JLO	11141-16-5	
PCB-1242 (Arochlor 1242)	ND	ug/l	1	1.00	06/02/00	JLO	53469-21-9	
PCB-1248 (Arochlor 1248)	ND	ug/l	1	1.00	06/02/00	JLO	12672-29-6	
PCB-1254 (Arochlor 1254)	ND	ug/l	1	1.00	06/02/00	JLO	11097-69-1	
PCB-1260 (Arochlor 1260)	ND	ug/l	1	1.00	06/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	28	%		1.00	06/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	116	%		1.00	06/02/00	JLO	877-09-8	
Date Extracted					05/25/00			

GC/MS Volatiles

Volatile Organics, TCLP Leach.	Method: EPA 8260				Prep Method: EPA 8260			
Vinyl Chloride	ND	ug/l	100	1.00	05/31/00	NLA	75-01-4	
1,1-Dichloroethene	ND	ug/l	50	1.00	05/31/00	NLA	75-35-4	
Chloroform	ND	ug/l	200	1.00	05/31/00	NLA	67-66-3	
1,2-Dichloroethane	3200	ug/l	500	10.0	05/31/00	NLA	107-06-2	1
2-Butanone	ND	ug/l	1000	1.00	05/31/00	NLA	78-93-3	
Carbon Tetrachloride	ND	ug/l	50	1.00	05/31/00	NLA	56-23-5	
Trichloroethene	190	ug/l	50	1.00	05/31/00	NLA	79-01-6	
Benzene	9100	ug/l	500	10.0	05/31/00	NLA	71-43-2	1
Tetrachloroethene	ND	ug/l	50	1.00	05/31/00	NLA	127-18-4	
Chlorobenzene	ND	ug/l	50	1.00	05/31/00	NLA	108-90-7	
1,2-Dichloroethane-d4 (S)	113	%		1.00	05/31/00	NLA	17060-07-0	
Toluene-d8 (S)	101	%		1.00	05/31/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	103	%		1.00	05/31/00	NLA	460-00-4	

GC/MS Semivolatiles

Semivolatile Organics, TCLP	Method: EPA 8270				Prep Method: EPA 3510			
1,4-Dichlorobenzene	ND	ug/l	1000	10.0	06/01/00	WAW	106-46-7	2
2-Methylphenol	900	ug/l	1000	10.0	06/01/00	WAW	95-48-7	3
3-Methylphenol	1400	ug/l	2000	10.0	06/01/00	WAW	108-39-4	3
4-Methylphenol	1400	ug/l	1000	10.0	06/01/00	WAW	106-44-5	
Nitrobenzene	ND	ug/l	1000	10.0	06/01/00	WAW	98-95-3	
Hexachlorobutadiene	ND	ug/l	1000	10.0	06/01/00	WAW	87-68-3	
2,4,6-Trichlorophenol	ND	ug/l	1000	10.0	06/01/00	WAW	88-06-2	
2,4,5-Trichlorophenol	ND	ug/l	5000	10.0	06/01/00	WAW	95-95-4	
2,4-Dinitrotoluene	ND	ug/l	1000	10.0	06/01/00	WAW	121-14-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc
9608 Loiret Blvd
Lenexa, KS 66219
Phone: 913 599 5665
Fax: 913 599 1385

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Pace Sample No: 603500067 Date Collected: 05/24/00 Matrix: Water
Client Sample ID: TANK UNK Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Hexachlorobenzene	ND	ug/l	1000	10.0	06/01/00	WAW	118-74-1	
Pentachlorophenol	ND	ug/l	5000	10.0	06/01/00	WAW	87-86-5	
Pyridine	ND	ug/l	1000	10.0	06/01/00	WAW	110-86-1	
Hexachloroethane	ND	ug/l	1000	10.0	06/01/00	WAW	67-72-1	
Nitrobenzene-d5 (S)	83	%		1.00	06/01/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	84	%		1.00	06/01/00	WAW	321-60-8	
Terphenyl-d14 (S)	84	%		1.00	06/01/00	WAW	1718-51-0	
Phenol-d6 (S)	75	%		1.00	06/01/00	WAW	13127-88-3	
2-Fluorophenol (S)	88	%		1.00	06/01/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	93	%		1.00	06/01/00	WAW	118-79-6	
Date Extracted					06/01/00			

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DATE: 06/06/00
PAGE: 4

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Result from a 1:10 dilution on 06/01/00.
[2]	Very high anounts of organic acids were present in the sample.
[3]	Detected but below the PRL: therefore, result is an estimated concentration (CLP J-Flag).

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QUALITY CONTROL DATA

DATE: 06/06/00
PAGE: 5

Deffenbaugh Industries. Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83752
Analysis Method: EPA 8082
Associated Pace Samples: 603500067

QC Batch Method: EPA 3510
Analysis Description: PCBs in Water by 8082

METHOD BLANK: 603501164
Associated Pace Samples:
603500067

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1016 (Arochlor 1016)	ug/l	ND	1	
PCB-1221 (Arochlor 1221)	ug/l	ND	1	
PCB-1232 (Arochlor 1232)	ug/l	ND	1	
PCB-1242 (Arochlor 1242)	ug/l	ND	1	
PCB-1248 (Arochlor 1248)	ug/l	ND	1	
PCB-1254 (Arochlor 1254)	ug/l	ND	1	
PCB-1260 (Arochlor 1260)	ug/l	ND	1	
Decachlorobiphenyl (S)	%	75		
Tetrachloro-meta-xylene (S)	%	68		

LABORATORY CONTROL SAMPLE: 603501172

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1016 (Arochlor 1016)	ug/l	10	7.729	77.3	
PCB-1260 (Arochlor 1260)	ug/l	10	11.46	115	
Decachlorobiphenyl (S)				66	
Tetrachloro-meta-xylene (S)				67	

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QUALITY CONTROL DATA

DATE: 06/06/00
PAGE: 6

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83852
Analysis Method: EPA 150.1
Associated Pace Samples: 603500067

QC Batch Method: EPA 150.1
Analysis Description: pH

SAMPLE DUPLICATE: 603506957

Parameter	Units	603502113	Dup. Result	RPD	Footnotes
		7.790	7.800	0	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd
Lenexa, KS 66219
Phone: 913 599 5665
Fax: 913 599 1385

QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84119
Analysis Method: EPA 8260
Associated Pace Samples: 603500067

QC Batch Method: EPA 8260
Analysis Description: Volatile Organics, TCLP Leach.

METHOD BLANK: 603522533
Associated Pace Samples:
603500067

Parameter	Units	Method Blank Result	PRL	Footnotes
Vinyl Chloride	ug/l	ND	100	
1,1-Dichloroethene	ug/l	ND	50	
Chloroform	ug/l	ND	200	
1,2-Dichloroethane	ug/l	ND	50	
2-Butanone	ug/l	ND	1000	
Carbon Tetrachloride	ug/l	ND	50	
Trichloroethene	ug/l	ND	50	
Benzene	ug/l	ND	50	
Tetrachloroethene	ug/l	ND	50	
Chlorobenzene	ug/l	ND	50	
1,2-Dichloroethane-d4 (S)	%	118		
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	101		

MATRIX SPIKE: 603522541

Parameter	Units	603500067	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Vinyl Chloride	ug/l	50.63	500	551.9	100	
1,1-Dichloroethene	ug/l	0	500	526.4	105	
Chloroform	ug/l	0	500	527.6	106	
1,2-Dichloroethane	ug/l	3213	500	3696	96.6	
2-Butanone	ug/l	0	500	150.3	30.1	
Carbon Tetrachloride	ug/l	0	500	541.6	108	

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Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

MATRIX SPIKE: 603522541

Parameter	Units	603500067	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Trichloroethene	ug/l	192.6	500	659.1	93.3	
Benzene	ug/l	9148	500	10170	204	1
Tetrachloroethene	ug/l	0	500	465.6	93.1	
Chlorobenzene	ug/l	0	500	476.7	95.3	
1,2-Dichloroethane-d4 (S)					106	
Toluene-d8 (S)					100	
4-Bromofluorobenzene (S)					104	

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd
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Phone: 913 599 5665
Fax: 913 599 1756

QUALITY CONTROL DATA

DATE: 06/06/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84164
Analysis Method: EPA 6010
Associated Pace Samples: 603500067

QC Batch Method: EPA 3010
Analysis Description: RCRA Metals, ICP, TCLP Leach.

METHOD BLANK: 603524349
Associated Pace Samples:
603500067

Parameter	Units	Method Blank Result	PRL	Footnotes
Arsenic	ug/l	ND	85	
Barium	ug/l	ND	4	
Cadmium	ug/l	ND	5	
Chromium	ug/l	ND	7	
Lead	ug/l	ND	50	
Selenium	ug/l	ND	100	
Silver	ug/l	ND	7	

MATRIX SPIKE: 603524356

Parameter	Units	603508391	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Arsenic	ug/l	0	1000	940.0	94.0	
Barium	ug/l	0	1000	837.2	83.7	
Cadmium	ug/l	0	100	77.05	77.0	
Chromium	ug/l	9.728	1000	851.4	84.2	
Lead	ug/l	4.099	1000	808.8	80.5	
Selenium	ug/l	0	1000	820.1	82.0	
Silver	ug/l	30.25	100	120.0	89.8	

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Lenexa, KS 66219
Phone 913 599 5
Fax 913 599 1

QUALITY CONTROL DATA

DATE: 06/06/00
PAGE: 10

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

LABORATORY CONTROL SAMPLE: 603524372

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Arsenic	ug/l	1000	821.6	82.2	
Barium	ug/l	1000	825.3	82.5	
Cadmium	ug/l	100	80.34	80.3	
Chromium	ug/l	1000	849.8	85.0	
Lead	ug/l	1000	847.9	84.8	
Selenium	ug/l	1000	740.4	74.0	
Silver	ug/l	100	79.74	79.7	

SAMPLE DUPLICATE: 603524364

Parameter	Units	603508391	Dup. Result	RPD	Footnotes
[illegible]c	ug/l	ND	ND	NC	
Barium	ug/l	ND	ND	NC	
Cadmium	ug/l	ND	ND	NC	
Chromium	ug/l	9.730	7.550	25	
Lead	ug/l	ND	ND	NC	
Selenium	ug/l	ND	ND	NC	
Silver	ug/l	30.20	27.50	10	

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd
Lenexa, KS 66219
Phone: 913 599 5665
Fax: 913 599 1759

QUALITY CONTROL DATA

DATE: 06/06/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84178
Analysis Method: EPA 8270
Associated Pace Samples: 603500067

QC Batch Method: EPA 3510
Analysis Description: Semivolatile Organics, TCLP

METHOD BLANK: 603524885
Associated Pace Samples:
603500067

Parameter	Units	Method Blank Result	PRL	Footnotes
1,4-Dichlorobenzene	ug/l	ND	100	
2-Methylphenol	ug/l	ND	100	
3-Methylphenol	ug/l	ND	200	
4-Methylphenol	ug/l	ND	100	
Nitrobenzene	ug/l	ND	100	
Hexachlorobutadiene	ug/l	ND	100	
2,4,6-Trichlorophenol	ug/l	ND	100	
2,4,5-Trichlorophenol	ug/l	ND	500	
2,4-Dinitrotoluene	ug/l	ND	100	
Hexachlorobenzene	ug/l	ND	100	
Pentachlorophenol	ug/l	ND	500	
Pyridine	ug/l	ND	100	
Hexachloroethane	ug/l	ND	100	
Nitrobenzene-d5 (S)	%	93		
2-Fluorobiphenyl (S)	%	84		
Terphenyl-d14 (S)	%	86		
Phenol-d6 (S)	%	82		
2-Fluorophenol (S)	%	107		
2,4,6-Tribromophenol (S)	%	101		

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd
Lenexa, KS 66219
Phone: 913 599 5665
Fax: 913 599 1759

QUALITY CONTROL DATA

DATE: 06/06/00
PAGE: 12

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

MATRIX SPIKE: 603524893

Parameter	Units	603500067	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
1,4-Dichlorobenzene	ug/l	0	505	315.2	62.4	
2-Methylphenol	ug/l	902.7	505	1286	75.9	
3-Methylphenol	ug/l	1428	1010	2596	116	
4-Methylphenol	ug/l	1428	1010	2596	116	
Nitrobenzene	ug/l	0	505	441.4	87.4	
Hexachlorobutadiene	ug/l	0	505	346.9	68.7	
2,4,6-Trichlorophenol	ug/l	0	505	440.6	87.2	
2,4,5-Trichlorophenol	ug/l	0	1515	1190	78.5	
2,4-Dinitrotoluene	ug/l	0	505	382.1	75.7	
Hexachlorobenzene	ug/l	0	505	401.8	79.6	
Pentachlorophenol	ug/l	0	1515	1865	123	
Pyridine	ug/l	0	1010	350.3	34.7	
Hexachloroethane	ug/l	0	505	917.0	182	2
[illegible]zene-d5 (S)					82	
2-Fluorobiphenyl (S)					77	
Terphenyl-d14 (S)					86	
Phenol-d6 (S)					79	
2-Fluorophenol (S)					90	
2,4,6-Tribromophenol (S)					90	

LABORATORY CONTROL SAMPLE: 603524901

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,4-Dichlorobenzene	ug/l	505	349.9	69.3	
2-Methylphenol	ug/l	505	390.8	77.4	
3-Methylphenol	ug/l	1010	860.3	85.2	
4-Methylphenol	ug/l	1010	860.3	85.2	
Nitrobenzene	ug/l	505	449.5	89.0	
Hexachlorobutadiene	ug/l	505	340.1	67.3	
2,4,6-Trichlorophenol	ug/l	505	407.8	80.8	
2,4,5-Trichlorophenol	ug/l	1515	1119	73.8	
2,4-Dinitrotoluene	ug/l	505	429.4	85.0	
Hexachlorobenzene	ug/l	505	428.1	84.8	
Pentachlorophenol	ug/l	1515	1834	121	
Pyridine	ug/l	1010	272.4	27.0	
Hexachloroethane	ug/l	505	308.8	61.1	
[illegible]ene-d5 (S)				91	
2-Fluorobiphenyl (S)				87	
Terphenyl-d14 (S)				94	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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Lenexa, KS 66219
Phone 913.599.5665
Fax 913.599.1385

QUALITY CONTROL DATA

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

LABORATORY CONTROL SAMPLE: 603524901

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol-d6 (S)				77	
2-Fluorophenol (S)				78	
2,4,6-Tribromophenol (S)				95	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd
Lenexa, KS 66219
Phone 913 599 5665
Fax 913 599 1759

QUALITY CONTROL DATA

DATE: 06/06/00

Ceffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84358
Analysis Method: EPA 7470
Associated Pace Samples: 603500067

QC Batch Method: EPA 7470
Analysis Description: Mercury, CVAAS, TCLP Leachate

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913 599 5665
Fax: 913 599 1759

Pace Project Number: 6041375
Client Project ID: ISC-KC CLOSURE (TANK UNK)

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Due to high analyte concentration the matrix spike and/or matrix spike duplicate do not provide reliable recovery data.
[2]	High spike recovery due to the presence of high levels of organic acids present in the sample. Refer to LCS 60352490i to demonstrate that the analytical system was operating in control.

REPORT OF LABORATORY ANALYSIS

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982

Quality Analytical Services

1633 S. Marsh * Box 266426 * Kansas City, MO. * (816) 254-5257

CHAIN-OF-CUSTODY RECORD and Analytical Requests

6041375

Client: DEFFENBAUGH

Address:

Phone: (913) 631-3300 Fax:

Report To: MICK COSSAIRT

Bill To: RODNEY MANN

P.O.# / Billing Reference:

Project Name / No.: ISC-KC CLOSURE

QAS Client No.:

QAS Project Manager:

QAS Project No.:

* Requested Due Date: NTA

Sampled By (PRINT): MICK COSSAIRT

Sampler Signature:

Date: 5/24/00

ITEM NO	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES.	H_2SO_4	HNO_3	VOA HCl	NaOH	ANALYSES REQUESTED (BE SPECIFIC): *TCLP	*VOA	*SEMI VOA	*METALS (RCRA8)	pH	DCB's	REMARKS
1.	TANK UNK 2 GL 2 PV	5/24/00 14:45	WATER		2		1	2			X	X	X	X	X	G03500067
2.																
3.																
4.																
5.																
6.																

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
					Rodney B. Mann	[illegible]	5/24/00	1600

Additional Comments:

PART 1 - ORIGINAL
PART 2 - TRANSFER
PART 3 - CUSTOMER

SEE REVERSE SIDE FOR INSTRUCTIONS

1301 Gervais Street - Suite 300
Columbia, South Carolina 29201

WE CARE

CUSTOMER NO.

0	0	0	2	-	4	2	4	4	-	5	1

DOC. NO. 0537 6551

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
816 796-9660	SCOTT SMITHPETER	09/23/00	00-30	13	000372936

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS
D	969.81	

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
09	NO	NO	691	001

LOCATION	TAX EXEMPTION NO.
508502	

BILL TO

DEFFENBAUGH/Quality Analytical
1633 MARSH
RODNEY MANN
KANSAS CITY MO 64126

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
			816-861-5257	26-240-4200			.071	.071	.071

DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)	(INITIAL)	CHANGE SCH. DATE (YY WW)	INV CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
	00100001		2.9000	1			2.90							0							
	0088888	02332307	570.0000	3	1530		1530							2						890680	
	TOTAL-SERVICE/PRODUCTS				1530		1532.90														

CHECK APPROPRIATE BOXES ➡

	GOOD	POOR		YES	NO		YES	NO
MACHINE CONDITION & CLEANLINESS	☐	☐	DECALS IN PLACE AND LEGIBLE	☐	☐	MACHINE PROPERLY GROUNDED	☐	☐
			FUSIBLE LINK INSTALLED	☐	☐	LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	☐	☐
LAMP ASSEMBLY CONDITION	☐	☐	EMERGENCY CLOSING OF LID UNOBSTRUCTED	☐	☐	SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	☐	☐

USEPA TRANSPORTER 1 ID NO.	USEPA TRANSPORTER 2 ID NO.	GENERATOR USEPA ID NO.	GENERATOR STATE ID NO.
	MOD980973564	~~CTD980~~ MOD014527168	~~CTD006~~ 010384

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)

12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER

3163055

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.

0 TO 220 LBS./MONTH — INITIALS

220 LBS. TO 2,200 LBS./MONTH — INITIALS

GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO.

STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO ➡ CREDIT CARD NO. AMEX VISA MC EXP. DATE

MANIFEST NO. 98914

LDR MESSAGE: LDR NOT REQ D

MANIFEST CODE	SEQ #
	5 D

IN THE EVENT OF AN EMERGENCY CALL

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

RODNEY L. MANN
Print Customer Name

By: Rodney L. Mann
Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	1532.90

DO NOT WRITE IN THE AREA BELOW

000372936
0002-4[redacted]-51 -4

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 6/99)

STATE OF MISSOURI 02

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT OF NATURAL RESOURCES 573-634-2436

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 09-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD 144521648 CES QG
MANIFEST DOCUMENT NO. 98914
2. Page ___ of 1
Information in the shaded areas is required by State Law.

3. Generator's Name and Mailing Address
DEFFENBAUGH
RODNEY MANN
KANSAS CITY 1633 MARSH
MO 64126

4. Generator's Phone (816 254 5257

5. Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC
6. US EPA ID Number: MOD 980973564

7. Transporter 2 Company Name: SAFETY-KLEEN (TG), INC.
8. US EPA ID Number: SCR 000074591

9. Designated Facility Name and Site Address
SAFETY-KLEEN (ARAG0000626
HWY 169 N INDUSTRIAL PARK
COFFEYVILLE KS 67337
10. US EPA ID Number: KSD 981506025

A. Missouri Manifest Document Number: 0783[redacted]89[redacted]
B. O.S.I. [illegible]
C. MO. [illegible]
D. [illegible]
E. MO. [illegible]
F. [illegible]
G. [illegible]
H. [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	
a. HAZARDOUS WASTE, LIQUID, N.O.S. (LEAD,1,1,1-TRICHLOROETHANE) 9 NA3082 PG III (ERG#171)	003	DM	00165	G	EPA WASTE CODE / STATE
b.					EPA WASTE CODE / STATE
c.					EPA WASTE CODE / STATE
d.					EPA WASTE CODE / STATE

J. Additional Descriptions for Materials Listed Above

		HANDLING CODE (FACILITY USE ONLY) INTERIM	FINAL	COMMENTS
a.	D008 [illegible]	[illegible]		
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
MO 10010384 Th-39442 MFST R/T#~~099347217~~ 99356925 0002-4244-51
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: RODNEY L. MANN
Signature: Rodney L. Mann
Month Day Year: 07 26 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robb Martin
Signature: Robb Martin
Date: 07 26 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jerry Moore
Signature: Jerry Moore
Date: 7 31 00

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Bobbie Harms
Signature: Bobbie Harms
DATE: 07 31 00

GENERATOR / TRANSPORTER / FACILITY

MISSOURI DNR FINAL COPY — PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED FACILITY THEN TRANSMITTED TO THE DEPARTMENT BY THE GENERATOR.

EPA Form 8700-22 (REV. 9/96) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

[redacted]RTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 09-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD 144 3 21643 CES 06
MANIFEST DOCUMENT NO. 7 3 9 1 4
2. Page ___ of ___
Information in the shaded areas is required by State Law.

3. Generator's Name and Mailing Address
DEFFENBAUGH
RODNEY MANN
KANSAS CITY 1633 MARSH MO 64126
4. Generator's Phone (816) 5257

A. Missouri Manifest Document Number CES 06 84 [redacted] 9 1 4
B. G.S.I. (Gen. Site Address)

5. Transporter 1 Company Name
SAFETY-KLEEN SYSTEMS, INC
6. US EPA ID Number MOD 980973564
C. MO. Trans. ID H-1273
D. Transporter's Phone 816 796-9560

7. Transporter 2 Company Name
SAFETY-KLEEN (TG), INC.
8. US EPA ID Number KSD 000071581
E. MO. Trans. ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN (ARAGO0000626
HWY 169 N INDUSTRIAL PARK
COFFEYVILLE KS 67337
10. US EPA ID Number KSD 981606025
G. State Facility's ID 036407
H. Facility's Phone 316 251-6380

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. HAZARDOUS WASTE, LIQUID, N.O.S. (LEAD, 1,1,1-TRICHLOROETHANE) 9 NA3082 PG III (ER-*151)	03	DM	0015	G	EPA WASTE CODE F001 / STATE
b.					EPA WASTE CODE / STATE
c.					EPA WASTE CODE / STATE
d.					EPA WASTE CODE / STATE

J. Additional Descriptions for Materials Listed Above	K. HANDLING CODE (FACILITY USE ONLY) INTERIM	FINAL	COMMENTS
a.	a. S01	D54	
b. DOCS 50- 1.03	b.		
c.	c.		
d.	d.		

15. Special Handling Instructions and Additional Information
MO 0001034 TG-24442
MFST R/T# ~~0593117217~~ 0002-4244-51
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: RODNEY L. MANN
Signature: [signature]
Month Day Year: 12 26 [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith Martin
Signature: [signature]
Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible]
Signature: [signature]
Date: Month Day Year

FACIL

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
DATE: Month Day Year

OPTIONAL COPY — PART 3

THIS COPY MAY BE GIVEN TO A SECOND TRANSPORTER OR TO A STATE

EPA Form 8700-22 REV. 9-96) MONR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI ... INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ...

EMERGENCY RESPONSE | U.S. COAST GUARD 1-800-424-8802

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD144521648 CES QG
MANIFEST DOCUMENT NO. 98914
2. Page
Information in the shaded areas

3. Generator's Name and Mailing Address
DEFFENBAUGH
RODNEY MANN
KANSAS CITY 1633 MARSH
MO 64126
4. Generator's Phone (816 254 5257

5. Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC
6. US EPA ID Number: MOD 980973564

7. Transporter 2 Company Name: SAFETY-KLEEN (TG), INC.
8. US EPA ID Number: SCR 000074591

9. Designated Facility Name and Site Address
SAFETY-KLEEN (ARAG0000626
HWY 169 N INDUSTRIAL PARK
COFFEYVILLE KS 67337
10. US EPA ID Number: KSD 981506025

C. MO. Trans. ID:
D. Transporter's Phone:
E. MO. Trans. ID:
F. Transporter's Phone:
G. State Facility's ID: 036407
H. Facility's Phone: 316 251-6380

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	Waste No.
a. HAZARDOUS WASTE, LIQUID, N.O.S. (LEAD,1,1,1-TRICHLOROETHANE) 9 NA3082 PG III (ERG#171)	003	DM	00165	G	EPA WASTE CODE F001 STATE
b.					EPA WASTE CODE STATE
c.					EPA WASTE CODE STATE
d.					EPA WASTE CODE STATE

J. Additional Descriptions for Materials Listed Above
a. D008 SG= 1.03
b.
c.
d.

K. HANDLING CODE (FACILITY USE ONLY)

	INTERIM	FINAL	COMMENTS
a.	S01	T54	
b.			
c.			
d.			

15. Special Handling Instructions and Additional Information
MO ID010384 MFST R/T#~~099347217~~ 019356925 0002-4244-51
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: RODNEY L. MANN
Signature: Rodney L. Mann
Month Day Year: 07 26 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robb Martin
Signature: Robb Martin
Date: 07 26 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
DATE: Month Day Year

GENERATOR | TRANSPORTER | FACILITY

MISSOURI DNR FINAL COPY — PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED FACILITY THEN TRANSMITTED TO THE DEPARTMENT BY THE GENERATOR.

EPA Form 8700-22 (REV. 9/96) MDNR-HWG 10

PREVIOUS EDITIONS ARE OBSOLETE

363-R4605 (REPRINT) PREQUALIFICATION EVALUATION PAGE 1 OF 7
COVERY SERVICE COMPLETED: 07/06/00
RVICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

CONTROL #: 2040578-9
RANCH/SUBMITTER: 508501 LAB #: 2040578-9
NDEPENDENCE,MO PROFILE REF #: 2332307

ENERATOR INFORMATION: CUSTOMER NUMBER: 0002-42-4451

DEFFENBAUGH
1633 MARSH
RODNEY MANN
KANSAS CITY MO 64126

ATTN: RODNEY L MANN

BRANCH: 508501 - INDEPENDENCE,MO

. GENERATOR INFORMATION:
ENERATOR NAME & FACILITY ADDRESS: BILLING COMPANY & ADDRESS:
DEFFENBAUGH
1633 MARSH
RODNEY MANN
KANSAS CITY MO 64126
PHONE: 816-564-5257
.I.C.: 2992
TATUS: CESQG US EPA ID: CESQG STATE ID: MO CESQG

. SHIPPING INFORMATION: DOT ASSISTANCE REQUESTED
AZ CLASS/DIVISION: XX ID# (UN/NA): NA3082 PACK GRP: III

ULK SHIPPING CONTAINERS
VACUUM TRAILER QTY/SIZE: 400 FREQ: 52 WEEKS

*** ACCEPT FOR SHIPMENT

CONTINUED ON NEXT PAGE

1363-R4505 (REPRINT) PREQUALIFICATION EVALUATION PAGE 2 OF 7
I/ ECOVERY SERVICE COMPLETED: 07/06/00
I RVICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

CONTROL #: 2040578-9
RANCH/SUBMITTER: 508501 LAB #: 2040578-9
NDEPENDENCE,MO PROFILE REF #: 2332307

. GENERAL MATERIAL & REGULATORY INFORMATION:
JAME OF MATERIAL: OILY WATER
'ROCESS DESCRIPTION: LUBE
)DOR: MILD
'ES NO
X REGULATED OR LICENSED RADIOACTIVE WASTE
X REGULATED MEDICAL / INFECTIOUS WASTE
X WASTE SUBJECT TO BENZENE NESHAP REGULATIONS
X TSCA REGULATED PCB WASTE
X REGULATED SUBPART CC WASTE (VOC'S >= 500 PPM)
X REGULATED OZONE DEPLETING SUBSTANCE
X CERCLA REGULATED (SUPERFUND) WASTE
X HAZARDOUS DEBRIS
X WASTE CONTAINS UHC'S/CONSTITUENTS OF CONCERN (CESQG)
X UHC IN SECTION D
X UHC IN ADDENDUM
X MEETS LDR STANDARDS
X PARTIALLY MEETS (FOR LANDFILL ONLY)
X COMMINGLED WASTE
X SORBENT ADDED
X BIODEGRADABLE?
X EXEMPT WASTE; IF YES, LIST REFERENCE 40 CFR
X STATE HAZARDOUS WASTE
X EPA HAZARDOUS WASTE
EPA WASTE CODES: F001 D008
ORIGIN CD: 0 SOURCE CD: FORM CD: SYSTEM CD:

*** ACCEPT FOR SHIPMENT

CONTINUED ON NEXT PAGE

363-R4505 (REPRINT) PREQUALIFICATION EVALUATION PAGE 3 OF 7
COVERY SERVICE COMPLETED: 07/06/00
VICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

ANCH/SUBMITTER: 508501 CONTROL #: 2040578-9
DEPENDENCE,MO LAB #: 2040578-9
PROFILE REF #: 2332307

MATERIAL COMPOSITION: ANALYTICAL RMP COMPOUND DENOTED WITH #

1. CHEMICAL/PHYSICAL CONSTITUENTS:

RICHLOROETHANE, 1,1,1- (CLASS I ODS)	42.00	MG/KG
TRACES OF VOLATILE ORGANICS DETECTED	1.90	WT%
RESIDUE	21.10	WT%
ESIDUE DESCRIPTION: OIL		
WATER CONTENT	77.00	WT%

2. ELEMENTAL CONSTITUENTS:

HE FOLLOWING VALUES ASSOCIATED WITH THE "<" ARE NON-DETECTED. THE VALUE ISTED IS THE REPORTING LIMIT.

LUMINUM		880.00	MG/KG
NTIMONY	<	27.00	MG/KG
RSENIC (D004)	<	18.00	MG/KG
ARIUM (D005)	<	71.00	MG/KG
ERYLLIUM	<	.89	MG/KG
ORON		20.00	MG/KG
ADMIUM (D006)	<	5.30	MG/KG
ALCIUM		3600.00	MG/KG
HROMIUM (D007)		11.00	MG/KG
OBALT	<	5.30	MG/KG
OPPER		33.00	MG/KG
RON		2000.00	MG/KG
F (D008)		180.00	MG/KG
SIUM		430.00	MG/KG
NESE		35.00	MG/KG
ERCURY (D009)	<	18.00	MG/KG
OLYBDENUM	<	14.00	MG/KG
ICKEL	<	7.10	MG/KG
HOSPHORUS		260.00	MG/KG
OTASSIUM		170.00	MG/KG
ELENIUM (D010)	<	35.00	MG/KG
ILICON		460.00	MG/KG
ILVER (D011)	<	1.80	MG/KG
ODIUM		160.00	MG/KG
HALLIUM	<	53.00	MG/KG
IN		19.00	MG/KG
ITANIUM		20.00	MG/KG
OTAL BROMINE	<	.10	WT%
OTAL CHLORINE		.19	WT%
OTAL FLUORINE	<	.10	WT%
OTAL SULFUR		.11	WT%
ANADIUM	<	3.50	MG/KG
INC		400.00	MG/KG

*** ACCEPT FOR SHIPMENT

CONTINUED ON NEXT PAGE

363-R4505 (REPRINT) PREQUALIFICATION EVALUATION PAGE 4 OF 7
[illegible]OVERY SERVICE COMPLETED: 07/06/00
[illegible]VICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

CONTROL #: 2040578-9
ANCH/SUBMITTER: 508501 LAB #: 2040578-9
DEPENDENCE,MO PROFILE REF #: 2332307

REACTIVE CHARACTERISTICS: WASTE EXHIBITS NO REACTIVE CHARACTERISTICS
S NO
X EXPLOSIVE
X SHOCK SENSITIVE
X PYROPHORIC
X OXIDIZER
X WATER REACTIVE
X AIR REACTIVE
X REACTIVE CYANIDE .00
X REACTIVE SULFIDE .00
X POLYMERIZABLE

. MATERIAL PHYSICAL CHARACTERISTICS @ 70F:

OF PHASES	2.0	
IQUID %	85.0	
LUDGE %	15.0	
OLOR	DK.BROWN,DK.GRAY	
ISCOSITY	<50	
ENSITY	1.03	
O FLASH AT	200.0	F
SH %	2.8	WT%
H LIQUIDS >20% H2O		
H	5.6	
TU'S / LB. OR RANGE	3770.0	BTU/LB

OMMENTS: FLAMMABILITY AT 200 F: NO FLASH NON-VOLATILE RESIDUE
AT 200 C: 6.1 WT.% BULK DENSITY: 1.03
[illegible]LE COMMENTS:

[illegible]S/SKOS

K SALES REP NAME: ALLEN SWISHER

*** ACCEPT FOR SHIPMENT

CONTINUED ON NEXT PAGE

363-R4505 (REPRINT) PREQUALIFICATION EVALUATION PAGE 5 OF 7
RECOVERY SERVICE COMPLETED: 07/06/00
SERVICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

CONTROL #: 2040578-9
RANCH/SUBMITTER: 508501 LAB #: 2040578-9
INDEPENDENCE,MO PROFILE REF #: 2332307

CORPORATE REVIEW:
DISPOSITION: ACCEPT FOR SHIP PART NUMBER: 0890680 ORGANIC LIQ LOW BTU
REVIEW DATE: 07/06/2000 REVIEWERS: GMH

APPROVED FACILITIES:

1 SAFETY-KLEEN (ARAGONITE), INC.
HWY 169 N INDUSTRIAL PARK
COFFEYVILLE, KS 67337
FED EPA#: KSD981506025
STATE EPA#:
TELEPHONE: 3162516380
STATE AUTH:

2 SAFETY-KLEEN SYSTEMS, INC.
1722 COOPER CREEK ROAD
DENTON, TX 76208
TXD077603371
65124
9404835200

3 SAFETY-KLEEN (DEER PARK), INC.
2027 BATTLEGROUND ROAD
DEER PARK, TX 77536
FED EPA#: TXD055141378
STATE EPA#: 50089
TELEPHONE: 2819302300
STATE AUTH:

4 SAFETY-KLEEN (BATON ROUGE), IN
13351 SCENIC HWY
BATON ROUGE, LA 70807
LAD010395127

2257781234

5 SAFETY-KLEEN SYSTEMS, INC.
3700 LAGRANGE ROAD
SMITHFIELD, KY 40068
FED EPA#: KYD053348108
STATE EPA#:
TELEPHONE: 5028452453
STATE AUTH:

6 SAFETY-KLEEN (ARAGONITE), INC.
11600 NORTH APTUS ROAD
ARAGONITE, UT 84029
UTD981552177

8013238100

APPROVED DOT - SHIPPING DESCRIPTION
[illegible]898 DRUM OR BULK HAZARDOUS WASTE, LIQUID, N.O.S.
(LEAD,1,1,1-TRICHLOROETHANE) 9 NA3082 PG
III (ERG#171)

US EPA WASTE CODES: F001 D008
USA

REVIEW COMMENTS:

```
*****************************************************************************
*
* EPA WASTE CODES HAVE CHANGED FROM THE ORIGINAL PROFILE.
*
* THIS WASTE MUST BE SHIPPED IN "X, Y OR Z" DOT RATED CONTAINERS.
*
* DO NOT SHIP THIS WASTE DIRECTLY TO A TSDF. WASTE MUST BE SHIPPED TO THE SERV
* ICE CENTER FIRST.
*
* NOT FOR SKOS OR SKVS DUE TO 111-TRICHLOROETHANE CONTENT.
C'O ADDENUM TO
* ASSIGN F001. 7/17/00 VV.
*****************************************************************************
```

THIS SERVES AS NOTICE PER FEDERAL AND STATE REGULATIONS THAT EACH FACILITY NOTED ABOVE HAS THE APPROPRIATE PERMITS, CAPABILITIES, CAPACITY; AND IS WILLING TO ACCEPT THE MATERIAL AS DESCRIBED IN THE APPROVAL SECTION. IT IS THE RESPONSIBILITY OF THE GENERATOR TO NOTIFY SAFETY-KLEEN CORP. OF ANY CHANGES IN THE PROCESS GENERATING THIS WASTE STREAM.

*** ACCEPT FOR SHIPMENT

CONTINUED ON NEXT PAGE

L363-R4505 (REPRINT) PREQUALIFICATION EVALUATION PAGE 6 OF 7
I[illegible]ECOVERY SERVICE COMPLETED: 07/06/00
I[illegible]RVICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

RANCH/SUBMITTER: 508501 CONTROL #: 2040578-9
NDEPENDENCE.MO LAB #: 2040578-9
PROFILE REF #: 2332307

OZONE DEPLETING SUBSTANCE (ODS) WARNING

ARNING: CONTAINS

X_ 1,1,1-TRICHLOROETHANE(METHYLCHLOROFORM), ___ CARBON TETRACHLORIDE
___ CHLOROTRIFLUOROMETHANE(CFC-13), ___ DICHLORODIFLUOROMETHANE(CFC-12)
___ DICHLOROTETRAFLUORETHANE(CFC-114), ___ TETRACHLORODIFLUOROETHANE(CFC-112)
___ TRICHLOROFLUOROMETHANE(CFC-11), ___ TRICHLOROTRIFLUOROETHANE(CFC-113)
___ OTHER (NAME MUST BE TYPED) _____

SUBSTANCE WHICH HARMS PUBLIC HEALTH AND ENVIRONMENT BY DESTROYING OZONE IN HE UPPER ATMOSPHERE.
HECK ALL THE ABOVE THAT APPLY.

FFIX THE LABEL WITH SAFETY-KLEEN PARTS NUMBER 81470 ON EACH DRUM CONTAINING HIS WASTE STREAM.

*** ACCEPT FOR SHIPMENT

CONTINUED ON NEXT PAGE

363-R4505 (REPRINT) PREQUALIFICATION EVALUATION PAGE 7 OF 7
L RECOVERY SERVICE COMPLETED: 07/06/00
T SERVICES COLLECTION REVISED: 07/17/00
RUN: 07/22/00

ACCEPT FOR SHIPMENT

CONTROL #: 2040578-9
ANCH/SUBMITTER: 508501 LAB #: 2040578-9
DEPENDENCE.MO PROFILE REF #: 2332307

ADDITIONAL ANALYTICAL

RESULT DESCRIPTION/ELEMENT	RESULT
PCB	NONE
PCB AMOUNT	
OTHER	< 1.0 MG/KG
RADIOACTIVITY	NONE DETECTED
WATER CONTENT	77

HE ANALYSIS CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF UALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN CORP. IN CCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITIES.

OTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED.

*** ACCEPT FOR SHIPMENT

END OF DOCUMENT

P1363-R4505

SAFETY-KLEEN CORP.
LDR NOTIFICATION FORM

ENERATOR NAME: DEFFENBAUGH

MANIFEST NO.
MANIFEST PAGE/LINE#

URSUANT TO 40 CFR 268.7(A), I HEREBY NOTIFY THAT THIS SHIPMENT CONTAINS
ASTE RESTRICETED UNDER 40 CFR PART 268 LAND DISPOSAL RESTRICTIONS (LDR).

A. GENERAL WASTE NOTIFICATION

EPA WASTE CODES & LDR SUBCATEGORIES (IF ANY)
001 0008

REATABILITY GROUP: NONWASTEWATERS

ASTE CONSTITUENT NOTIFICATION:

EGEND UMBER	CONSTITUENT
35	1,1,1-TRICHLOROETHANE
51	CHROMIUM (TOTAL)

GENERATOR'S AUTHORIZED SIGNATURE

NAME & TITLE (PRINTED OR TYPED)

___/___/___
DATE

S-K PROFILE REFERENCE NUMBER: 2332307 CONTROL NUMBER: 2040578-9

DEFFENBAUGH DISPOSAL SERVICE

st Office Box 3220
Shawnee, Kansas 66203
(913) 631-3300

WASTE DISPOSAL VERIFICATON

GENERATOR'S NAME: Industrial Service Corp

ADDRESS: 1633 Marsh
Kcmo 64126

PHONE NUMBER: (816) 254-5257

DESCRIPTION OF WASTE: Dirt - Non Contaminated Per mick Cossaim

AUTHORIZATION NUMBER (IF NEEDED): —

UANTITY RECEIVED: 2 Drums

TRANSPORTER'S NAME: DEFFENBAUGH DISPOSAL SERVICE

ADDRESS: 18181 WEST 53RD STREET
SHAWNEE, KANSAS 66217

PHONE NUMBER: (913) 631-3300

DRIVER'S NAME (PRINT): John Organ

The above named material has been accepted and disposed of at the Johnson County Landfill and to the best of my knowledge the foregoing is true and accurate.

Mark Randall Schroeppel
Received By

07-19-01
Date Received

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

June 28, 2001

Mr. MICK COSSAIRT
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Lab Project Number: 6050738
Client Project ID: SOIL DRUM

Dear Mr. COSSAIRT:

Enclosed are the analytical results for sample(s)received by the laboratory on June 15, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300 x1207

Solid results are reported on a wet weight basis

Lab Sample No: 604399352 | Project Sample Number: 6050738-001 | Date Collected: 06/15/01 00:00
Client Sample ID: SOIL DRUM | Matrix: Solid | Date Received: 06/15/01 15:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
Metals									
RCRA Metals, ICP, TCLP Leach.		Method: EPA 6010			Prep Method: EPA 1311				
Date Extracted					06/20/01				
RCRA Metals, ICP, TCLP Leach.		Method: EPA 6010			Prep Method: EPA 3010				
Arsenic	ND	ug/l	85.0	1.0	06/25/01	TMG	7440-38-2		
Barium	1350	ug/l	4.00	1.0	06/25/01	TMG	7440-39-3	1	
Cadmium	8.90	ug/l	5.00	1.0	06/25/01	TMG	7440-43-9		
Chromium	ND	ug/l	7.00	1.0	06/25/01	TMG	7440-47-3		
Lead	ND	ug/l	50.0	1.0	06/25/01	TMG	7439-92-1		
Selenium	ND	ug/l	100.	1.0	06/25/01	TMG	7782-49-2		
Silver	ND	ug/l	7.00	1.0	06/25/01	TMG	7440-22-4		
Date Digested					06/25/01				
Mercury, CVAAS, TCLP Leachate		Method: EPA 7470			Prep Method: EPA 7470				
Mercury	ND	ug/l	2.00	1.0	06/25/01 16:02	TMG	7439-97-6		
GC/MS Semivolatiles									
Semivolatile Organics, TCLP		Method: EPA 8270			Prep Method: EPA 3510				
1,4-Dichlorobenzene	ND	ug/l	100	1.0	06/25/01 21:17	WAW	106-46-7		
2-Methylphenol (o-Cresol)	ND	ug/l	100	1.0	06/25/01 21:17	WAW	95-48-7		
3-Methylphenol (m-Cresol)	ND	ug/l	200	1.0	06/25/01 21:17	WAW	108-39-4		
4-Methylphenol (p-Cresol)	ND	ug/l	100	1.0	06/25/01 21:17	WAW	106-44-5		
Nitrobenzene	ND	ug/l	100	1.0	06/25/01 21:17	WAW	98-95-3		
Hexachloro-1,3-butadiene	ND	ug/l	100	1.0	06/25/01 21:17	WAW	87-68-3		
2,4,6-Trichlorophenol	ND	ug/l	100	1.0	06/25/01 21:17	WAW	88-06-2		
2,4,5-Trichlorophenol	ND	ug/l	500	1.0	06/25/01 21:17	WAW	95-95-4		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.

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www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

Lab Sample No: 604399352 | Project Sample Number: 6050738-001 | Date Collected: 06/15/01 00:00
Client Sample ID: SOIL DRUM | Matrix: Solid | Date Received: 06/15/01 15:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
2,4-Dinitrotoluene	ND	ug/l	100	1.0	06/25/01 21:17	WAW	121-14-2		
Hexachlorobenzene	ND	ug/l	100	1.0	06/25/01 21:17	WAW	118-74-1		
Pentachlorophenol	ND	ug/l	500	1.0	06/25/01 21:17	WAW	87-86-5		
Pyridine	ND	ug/l	100	1.0	06/25/01 21:17	WAW	110-86-1		
Hexachloroethane	ND	ug/l	100	1.0	06/25/01 21:17	WAW	67-72-1		
Nitrobenzene-d5 (S)	79	%		1.0	06/25/01 21:17	WAW	4165-60-0		
2-Fluorobiphenyl (S)	86	%		1.0	06/25/01 21:17	WAW	321-60-8		
Terphenyl-d14 (S)	76	%		1.0	06/25/01 21:17	WAW	1718-51-0		
Phenol-d6 (S)	80	%		1.0	06/25/01 21:17	WAW	13127-88-3		
2-Fluorophenol (S)	77	%		1.0	06/25/01 21:17	WAW	367-12-4		
2,4,6-Tribromophenol (S)	93	%		1.0	06/25/01 21:17	WAW			
Date Extracted					06/22/01				

GC Semivolatiles

s in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550				
B-1016 (Aroclor 1016)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.	1.0	06/21/01 14:03	TGH	11096-82-5		
Decachlorobiphenyl (S)	50	%		1.0	06/21/01 14:03	TGH	2051-24-3		
Tetrachloro-m-xylene (S)	48	%		1.0	06/21/01 14:03	TGH	877-09-8		
Date Extracted					06/20/01				
Total Extractable Hydrocarbons	Method: OA2				Prep Method: OA2				
Mineral Spirits	ND	mg/kg	9.8	1.0	06/21/01 09:57	TMD			
Jet Fuel	ND	mg/kg	9.8	1.0	06/21/01 09:57	TMD			
Kerosene	ND	mg/kg	9.8	1.0	06/21/01 09:57	TMD			
Diesel Fuel	ND	mg/kg	9.8	1.0	06/21/01 09:57	TMD	68334-30-5		
Fuel Oil	ND	mg/kg	9.8	1.0	06/21/01 09:57	TMD	68334-30-5		
Motor Oil	ND	mg/kg	9.8	1.0	06/21/01 09:57	TMD			
n-Tetracosane (S)	87	%		1.0	06/21/01 09:57	TMD	646-31-1		
p-Terphenyl (S)	85	%		1.0	06/21/01 09:57	TMD	92-94-4		
Date Extracted					06/20/01				

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Lab Project Number: 6050738
Client Project ID: SOIL DRUM

Lab Sample No: 604399352 | Project Sample Number: 6050738-001 | Date Collected: 06/15/01 00:00
Client Sample ID: SOIL DRUM | Matrix: Solid | Date Received: 06/15/01 15:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	19.6	%		1.0	06/26/01	DCKI			
GC/MS Volatiles									
Volatile Organics, TCLP Leach.	Method: EPA 8260				Prep Method: EPA 8260				
Vinyl chloride	ND	ug/l	100	1.0	06/22/01 02:29	NLA	75-01-4		
1,1-Dichloroethene	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	75-35-4		
Chloroform	ND	ug/l	200	1.0	06/22/01 02:29	NLA	67-66-3		
1,2-Dichloroethane	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	107-06-2		
2-Butanone (MEK)	ND	ug/l	1000	1.0	06/22/01 02:29	NLA	78-93-3		
Carbon tetrachloride	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	56-23-5		
Trichloroethene	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	79-01-6		
nzene	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	71-43-2		
trachloroethene	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	127-18-4		
Chlorobenzene	ND	ug/l	50.	1.0	06/22/01 02:29	NLA	108-90-7		
1,2-Dichloroethane-d4 (S)	102	%		1.0	06/22/01 02:29	NLA	17060-07-0		
Toluene-d8 (S)	100	%		1.0	06/22/01 02:29	NLA	2037-26-5		
4-Bromofluorobenzene (S)	102	%		1.0	06/22/01 02:29	NLA	460-00-4		

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Lab Project Number: 6050738
Client Project ID: SOIL DRUM

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
[1]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105189
QC Batch Method: OA2
Analysis Method: OA2
Analysis Description: Total Extractable Hydrocarbons
Associated Lab Samples: 604399352

METHOD BLANK: 604403782
Associated Lab Samples:
604399352

Parameter	Units	Method Blank Result	PRL	Footnotes
Mineral Spirits	mg/kg	ND	10	
Jet Fuel	mg/kg	ND	10	
Kerosene	mg/kg	ND	10	
Diesel Fuel	mg/kg	ND	10	
Fuel Oil	mg/kg	ND	10	
Motor Oil	mg/kg	ND	10	
n-Tetracosane (S)	%	92		
p-Terphenyl (S)	%	89		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604403790 604403808

Parameter	Units	604401307	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Diesel Fuel	mg/kg	0	493.10	456.4	93	465.1	94	2	
n-Tetracosane (S)					99		101		
p-Terphenyl (S)					99		101		

LABORATORY CONTROL SAMPLE: 604403816

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Diesel Fuel	mg/kg	500	463.7	93	
n-Tetracosane (S)				96	
p-Terphenyl (S)				93	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105230
QC Batch Method: EPA 3550
Analysis Method: EPA 8082
Analysis Description: PCBs in Soil by 8082
Associated Lab Samples: 604399352

METHOD BLANK: 604405381
Associated Lab Samples:
604399352

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1016 (Aroclor 1016)	ug/kg	ND	33	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33	
[illegible]chlorobiphenyl (S)	%	74		
[illegible]achloro-m-xylene (S)	%	58		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604405399 604405407

Parameter	Units	604399352	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1016 (Aroclor 1016)	ug/kg	0	332.80	222.8	67	222.5	67	0	
PCB-1260 (Aroclor 1260)	ug/kg	21.39	332.80	230.6	63	236.8	65	3	
Decachlorobiphenyl (S)					71		71		
Tetrachloro-m-xylene (S)					63		65		

LABORATORY CONTROL SAMPLE: 604405415

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1016 (Aroclor 1016)	ug/kg	333.3	250.9	75	
PCB-1260 (Aroclor 1260)	ug/kg	333.3	251.4	75	
Decachlorobiphenyl (S)				77	
Tetrachloro-m-xylene (S)				74	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105332
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics, TCLP
Associated Lab Samples: 604399352

METHOD BLANK: 604408682
Associated Lab Samples:
604399352

Parameter	Units	Method Blank Result	PRL	Footnotes
1,4-Dichlorobenzene	ug/l	ND	100	
2-Methylphenol (o-Cresol)	ug/l	ND	100	
3-Methylphenol (m-Cresol)	ug/l	ND	200	
4-Methylphenol (p-Cresol)	ug/l	ND	100	
Nitrobenzene	ug/l	ND	100	
Hexachloro-1,3-butadiene	ug/l	ND	100	
2,4,6-Trichlorophenol	ug/l	ND	100	
[illegible],5-Trichlorophenol	ug/l	ND	500	
[illegible]Dinitrotoluene	ug/l	ND	100	
Hexachlorobenzene	ug/l	ND	100	
Pentachlorophenol	ug/l	ND	500	
Pyridine	ug/l	ND	100	
Hexachloroethane	ug/l	ND	100	
Nitrobenzene-d5 (S)	%	77		
2-Fluorobiphenyl (S)	%	93		
Terphenyl-d14 (S)	%	78		
Phenol-d6 (S)	%	82		
2-Fluorophenol (S)	%	87		
2,4,6-Tribromophenol (S)	%	96		

MATRIX SPIKE: 604408690

Parameter	Units	604392522	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
1,4-Dichlorobenzene	ug/l	0	505.00	342.3	68	
2-Methylphenol (o-Cresol)	ug/l	0	505.00	379.4	75	
3-Methylphenol (m-Cresol)	ug/l	0	1010.00	708.3	70	
4-Methylphenol (p-Cresol)	ug/l	0	1010.00	708.3	70	
Nitrobenzene	ug/l	0	505.00	368.7	73	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

MATRIX SPIKE: 604408690

Parameter	Units	604392522	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Hexachloro-1,3-butadiene	ug/l	0	505.00	300.9	60	
2,4,6-Trichlorophenol	ug/l	0	505.00	381.4	76	
2,4,5-Trichlorophenol	ug/l	0	1515.00	950.5	63	
2,4-Dinitrotoluene	ug/l	0	505.00	381.3	76	
Hexachlorobenzene	ug/l	0	505.00	351.9	70	
Pentachlorophenol	ug/l	0	1515.00	1048	69	
Pyridine	ug/l	0	1010.00	423.6	42	
Hexachloroethane	ug/l	0	505.00	311.0	62	
Nitrobenzene-d5 (S)					74	
2-Fluorobiphenyl (S)					79	
Terphenyl-d14 (S)					74	
Phenol-d6 (S)					78	
2-Fluorophenol (S)					85	
2,4,6-Tribromophenol (S)					96	

LABORATORY CONTROL SAMPLE: 604408708

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,4-Dichlorobenzene	ug/l	505	348.1	69	
2-Methylphenol (o-Cresol)	ug/l	505	382.8	76	
3-Methylphenol (m-Cresol)	ug/l	1010	752.1	74	
4-Methylphenol (p-Cresol)	ug/l	1010	752.1	74	
Nitrobenzene	ug/l	505	377.3	75	
Hexachloro-1,3-butadiene	ug/l	505	313.6	62	
2,4,6-Trichlorophenol	ug/l	505	394.6	78	
2,4,5-Trichlorophenol	ug/l	1515	985.5	65	
2,4-Dinitrotoluene	ug/l	505	378.1	75	
Hexachlorobenzene	ug/l	505	352.3	70	
Pentachlorophenol	ug/l	1515	1045	69	
Pyridine	ug/l	1010	534.5	53	
Hexachloroethane	ug/l	505	315.7	62	
Nitrobenzene-d5 (S)				77	
2-Fluorobiphenyl (S)				80	
Terphenyl-d14 (S)				76	
Phenol-d6 (S)				82	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

LABORATORY CONTROL SAMPLE: 604408708

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2-Fluorophenol (S)				87	
2,4,6-Tribromophenol (S)				98	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105321
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: Volatile Organics, TCLP Leach.
Associated Lab Samples: 604399352

METHOD BLANK: 604408468
Associated Lab Samples:
604399352

Parameter	Units	Method Blank Result	PRL	Footnotes
Vinyl chloride	ug/l	ND	100	
1,1-Dichloroethene	ug/l	ND	50	
Chloroform	ug/l	ND	200	
1,2-Dichloroethane	ug/l	ND	50	
2-Butanone (MEK)	ug/l	ND	1000	
Carbon tetrachloride	ug/l	ND	50	
Trichloroethene	ug/l	ND	50	
[illegible]ene	ug/l	ND	50	
[illegible]achloroethene	ug/l	ND	50	
Chlorobenzene	ug/l	ND	50	
1,2-Dichloroethane-d4 (S)	%	98		
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	102		

MATRIX SPIKE: 604408476

Parameter	Units	604399352	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Vinyl chloride	ug/l	0	500.00	507.9	102	
1,1-Dichloroethene	ug/l	0	500.00	521.1	104	
Chloroform	ug/l	0	500.00	493.3	99	
1,2-Dichloroethane	ug/l	0	500.00	528.0	106	
2-Butanone (MEK)	ug/l	0	500.00	560.0	112	
Carbon tetrachloride	ug/l	0	500.00	487.6	98	
Trichloroethene	ug/l	0	500.00	487.4	98	
Benzene	ug/l	0	500.00	497.3	100	
Tetrachloroethene	ug/l	0	500.00	520.9	104	
Chlorobenzene	ug/l	0	500.00	499.7	100	
1,2-Dichloroethane-d4 (S)					104	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

MATRIX SPIKE: 604408476

Parameter	Units	604399352	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Toluene-d8 (S)					102	
4-Bromofluorobenzene (S)					102	

LABORATORY CONTROL SAMPLE: 604408484

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Vinyl chloride	ug/l	500	504.9	101	
1,1-Dichloroethene	ug/l	500	514.8	103	
Chloroform	ug/l	500	494.5	99	
1,2-Dichloroethane	ug/l	500	499.8	100	
2-Butanone (MEK)	ug/l	500	529.7	106	
Carbon tetrachloride	ug/l	500	500.6	100	
[illegible]hloroethene	ug/l	500	508.2	102	
[illegible]ene	ug/l	500	498.2	100	
Tetrachloroethene	ug/l	500	520.2	104	
Chlorobenzene	ug/l	500	514.9	103	
1,2-Dichloroethane-d4 (S)				97	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				100	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105395
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 604399352

METHOD BLANK: 604412155
Associated Lab Samples:
604399352

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	ug/l	ND	2	

MATRIX SPIKE: 604412163

Parameter	Units	604397117	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
[illegible]ury	ug/l	1.508	100.00	100.5	99	

LABORATORY CONTROL SAMPLE: 604412189

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	ug/l	100	105.7	106	

SAMPLE DUPLICATE: 604412171

Parameter	Units	604397117	Dup. Result	RPD	Footnotes
Mercury	ug/l	ND	ND	0	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105381
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: RCRA Metals, ICP, TCLP Leach.
Associated Lab Samples: 604399352

METHOD BLANK: 604411256
Associated Lab Samples:
604399352

Parameter	Units	Method Blank Result	PRL	Footnotes
Arsenic	ug/l	ND	85	
Barium	ug/l	17.2	4	
Cadmium	ug/l	ND	5	
Chromium	ug/l	ND	7	
Lead	ug/l	ND	50	
Selenium	ug/l	ND	100	
Silver	ug/l	ND	7	

MATRIX SPIKE: 604411272

Parameter	Units	604399352	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Arsenic	ug/l	0	1000.00	953.2	95	
Barium	ug/l	1348	1000.00	2267	92	
Cadmium	ug/l	8.895	100.00	104.2	95	
Chromium	ug/l	1.239	1000.00	964.7	96	
Lead	ug/l	3.407	1000.00	899.3	90	
Selenium	ug/l	8.542	1000.00	970.9	96	
Silver	ug/l	1.242	100.00	105.8	104	

LABORATORY CONTROL SAMPLE: 604411264

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Arsenic	ug/l	1000	924.6	92	
Barium	ug/l	1000	957.5	96	
Cadmium	ug/l	100	96.78	97	
Chromium	ug/l	1000	988.0	99	

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QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

LABORATORY CONTROL SAMPLE: 604411264

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Lead	ug/l	1000	927.4	93	
Selenium	ug/l	1000	863.2	86	
Silver	ug/l	100	98.25	98	

SAMPLE DUPLICATE: 604411280

Parameter	Units	604399352	Dup. Result	RPD	Footnotes
Arsenic	ug/l	ND	ND	0	
Barium	ug/l	1350	1210	11	
Cadmium	ug/l	8.900	8.010	10	
Chromium	ug/l	ND	ND	0	
Lead	ug/l	ND	ND	0	
Selenium	ug/l	ND	ND	0	
Silver	ug/l	ND	ND	0	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QC Batch: 105409
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Lab Samples: 604399352

SAMPLE DUPLICATE: 604413013

Parameter	Units	604409474	Dup. Result	RPD	Footnotes
Percent Moisture	%	22.60	22.60	0	

REPORT OF LABORATORY ANALYSIS

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Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate

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Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

CROSS REFERENCE TABLE

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Lab Project Number: 6050738
Client Project ID: SOIL DRUM

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300 x1207

Lab Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
604399352	SOIL DRUM	OA2	105189	OA2	105309
604399352	SOIL DRUM	EPA 3550	105230	EPA 8082	105307
604399352	SOIL DRUM	EPA 3510	105332	EPA 8270	105527
604399352	SOIL DRUM	EPA 8260	105321		
604399352	SOIL DRUM	EPA 7470	105395		
604399352	SOIL DRUM	EPA 3010	105381	EPA 6010	105456
604399352	SOIL DRUM		105409		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

596641

Page: of

Required Client Information: **Section A**

Company: [illegible]
Address: [illegible]
Phone: [illegible] Fax:

Required Client Information: **Section B**

Report To: [illegible]
Copy To:
Invoice To: [illegible]
P.O.
Project Name:
Project Number:

Client Information (Check quote/contract):
Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager: [illegible]
Project #: [illegible]
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis:

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	TCLP VOC	TCLP [illegible]	[illegible]	[illegible]	[illegible]	Remarks / Lab ID
1	SW1 - Drum 2	SL	[illegible]		1	1							X	X	X	X	X	[illegible]
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[illegible]	[illegible]	[illegible]	[illegible]	4/15/02	15:30

Additional Comments:

Pace Project No.:

SAMPLE CONDITION

Temp: ____ °C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N	pH ____

SEE REVERSE SIDE FOR INSTRUCTIONS

Stephanie Gooten
EPA

REC'D

AUG 08 2000

RCAP

Mel Carnahan, Governor • Stephen M. Mahfood, Director

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

AUG 01 2000

HAZARDOUS WASTE PROGRAM
MISSOURI DEPARTMENT OF
NATURAL RESOURCES

ENVIRONMENTAL SERVICES PROGRAM

RESULTS OF SAMPLE ANALYSES

Sample Number: 0004403
Lab Number: 00-D1529

Reported To: DARLEEN WESTCOTT
Affiliation: HWP
Project Code: 4908/3000

Report Date: 7/26/00
Date Collected: 6/ 9/00
Date Received: 6/ 9/00

Sample Collected by: DARLEEN WESTCOTT, HWP
Sampling Location: INDUSTRIAL SERVICE CORP
Sample Description: SPLIT SAMPLING
BLUE SUMMIT, MO
EX12, SOIL SAMPLE, MIDDLE DEPTH

Analysis Performed	Results		Analyzed	Method
Silver, Total	< 1,000	ug/kg	6/14/00	200.7
Arsenic, Total	8,030	ug/kg	6/15/00	206.2
Barium, Total	315,000	ug/kg	6/14/00	200.7
Cadmium, Total	678	ug/kg	6/14/00	200.7
Chromium, Total	36,600	ug/kg	6/14/00	200.7
Mercury, Total	< 40.0	ug/kg	6/16/00	245.1
Lead, Total	16,100	ug/kg	6/14/00	239.2
Selenium, Total	< 2,000	ug/kg	6/15/00	270.2
VOA Results:				
Chloromethane	< 500	ug/kg	6/12/00	8260
Vinyl Chloride	< 25.0	ug/kg	6/12/00	8260
Bromomethane	< 125	ug/kg	6/12/00	8260
Chloroethane	< 125	ug/kg	6/12/00	8260
1,1-Dichloroethene	< 25.0	ug/kg	6/12/00	8260
Acetone	< 500	ug/kg	6/12/00	8260
Carbon Disulfide	< 25.0	ug/kg	6/12/00	8260
Methylene Chloride	< 500	ug/kg	6/12/00	8260
Methyl Tertiary Butyl Eth	< 50.0	ug/kg	6/12/00	8260
trans-1,2-Dichloroethene	< 25.0	ug/kg	6/12/00	8260
1,1-Dichloroethane	< 25.0	ug/kg	6/12/00	8260
2-Butanone	< 125	ug/kg	6/12/00	8260
cis-1,2-Dichloroethene	< 25.0	ug/kg	6/12/00	8260
Chloroform	< 25.0	ug/kg	6/12/00	8260

Recycled Paper

Lab Number: 00-D1529
Sample Number: 0004403
July 26, 2000

Analysis Performed	Results		Analyzed	Method
1,1,1-Trichloroethane	< 25.0	ug/kg	6/12/00	8260
Carbon Tetrachloride	< 25.0	ug/kg	6/12/00	8260
Benzene	< 25.0	ug/kg	6/12/00	8260
1,2-Dichloroethane	< 25.0	ug/kg	6/12/00	8260
Trichloroethene	< 25.0	ug/kg	6/12/00	8260
1,2-Dichloropropane	< 25.0	ug/kg	6/12/00	8260
Bromodichloromethane	< 25.0	ug/kg	6/12/00	8260
2-Hexanone	< 50.0	ug/kg	6/12/00	8260
Trans-1,3-Dichloropropene	< 25.0	ug/kg	6/12/00	8260
Toluene	< 25.0	ug/kg	6/12/00	8260
CIS-1,3-Dichloropropene	< 25.0	ug/kg	6/12/00	8260
1,1,2-Trichloroethane	< 25.0	ug/kg	6/12/00	8260
4-Methyl-2-Pentanone	< 25.0	ug/kg	6/12/00	8260
Tetrachloroethene	< 25.0	ug/kg	6/12/00	8260
Dibromochloromethane	< 25.0	ug/kg	6/12/00	8260
Chlorobenzene	< 25.0	ug/kg	6/12/00	8260
Ethylbenzene	< 25.0	ug/kg	6/12/00	8260
Total Xylenes	26.9	ug/kg	6/12/00	8260
Styrene	< 25.0	ug/kg	6/12/00	8260
Bromoform	< 25.0	ug/kg	6/12/00	8260
1,1,2,2-Tetrachloroethane	< 25.0	ug/kg	6/12/00	8260
1,3-Dichlorobenzene	< 25.0	ug/kg	6/12/00	8260
1,4-Dichlorobenzene	< 25.0	ug/kg	6/12/00	8260
1,2-Dichlorobenzene	< 25.0	ug/kg	6/12/00	8260
Diethyl Ether	< 500	ug/kg	6/12/00	8260
Iodomethane	< 125	ug/kg	6/12/00	8260
Acrylonitrile	< 50.0	ug/kg	6/12/00	8260
Allyl Chloride	< 25.0	ug/kg	6/12/00	8260
Propionitrile	< 500	ug/kg	6/12/00	8260
Methacrylonitrile	< 25.0	ug/kg	6/12/00	8260
Methyl Acrylate	< 250	ug/kg	6/12/00	8260
Tetrahydrofuran	< 125	ug/kg	6/12/00	8260
1-Chlorobutane	< 25.0	ug/kg	6/12/00	8260
Chloroacetonitrile	< 50.0	ug/kg	6/12/00	8260
2-Nitropropane	< 25.0	ug/kg	6/12/00	8260
Methylmethacrylate	< 25.0	ug/kg	6/12/00	8260
1,1-Dichloropropanone	< 50.0	ug/kg	6/12/00	8260
Ethyl Methacrylate	< 25.0	ug/kg	6/12/00	8260
t-1,4-Dichloro-2-butene	< 25.0	ug/kg	6/12/00	8260
Pentachloroethane	< 25.0	ug/kg	6/12/00	8260
Hexachloroethane	< 25.0	ug/kg	6/12/00	8260
Nitrobenzene	< 250	ug/kg	6/12/00	8260
Dichlorodifluoromethane	< 25.0	ug/kg	6/12/00	8260
Trichlorofluoromethane	< 125	ug/kg	6/12/00	8260
2,2-Dichloropropane	< 25.0	ug/kg	6/12/00	8260
Bromochloromethane	< 25.0	ug/kg	6/12/00	8260
1,1-Dichloropropene	< 25.0	ug/kg	6/12/00	8260

Lab Number: 00-D1529
Sample Number: 0004403
July 26, 2000

Analysis Performed	Results		Analyzed	Method
Dibromomethane	< 25.0	ug/kg	6/12/00	8260
1,3-Dichloropropane	< 25.0	ug/kg	6/12/00	8260
1,2-Dibromoethane	< 25.0	ug/kg	6/12/00	8260
1,1,1,2-Tetrachloroethane	< 25.0	ug/kg	6/12/00	8260
Isopropylbenzene	< 25.0	ug/kg	6/12/00	8260
1,2,3-Trichloropropane	< 25.0	ug/kg	6/12/00	8260
n-Propylbenzene	< 25.0	ug/kg	6/12/00	8260
Bromobenzene	< 25.0	ug/kg	6/12/00	8260
2-Chlorotoluene	< 25.0	ug/kg	6/12/00	8260
4-Chlorotoluene	< 25.0	ug/kg	6/12/00	8260
1,3,5-Trimethylbenzene	31.5	ug/kg	6/12/00	8260
tert-Butylbenzene	< 50.0	ug/kg	6/12/00	8260
1,2,4-Trimethylbenzene	108	ug/kg	6/12/00	8260
sec-Butylbenzene	< 25.0	ug/kg	6/12/00	8260
p-isopropyltoluene	< 25.0	ug/kg	6/12/00	8260
n-Butylbenzene	31.5	ug/kg	6/12/00	8260
1,2-Dibromo-3-Chloroprop	< 25.0	ug/kg	6/12/00	8260
1,2,4-Trichlorobenzene	< 25.0	ug/kg	6/12/00	8260
Hexachlorobutadiene	< 50.0	ug/kg	6/12/00	8260
Naphthalene	Not analyzed.		6/12/00	8260
1,2,3-Trichlorobenzene	< 50.0	ug/kg	6/12/00	8260
Pesticide Results:				
Alpha - BHC	< 50.0	ug/kg	7/10/00	8080A
Beta - BHC	< 50.0	ug/kg	7/10/00	8080A
Gamma - BHC	< 50.0	ug/kg	7/10/00	8080A
Delta - BHC	< 50.0	ug/kg	7/10/00	8080A
Heptachlor	< 50.0	ug/kg	7/10/00	8080A
Aldrin	< 50.0	ug/kg	7/10/00	8080A
Heptachlor Epoxide	< 50.0	ug/kg	7/10/00	8080A
Alpha - Endosulfan	< 50.0	ug/kg	7/10/00	8080A
Dieldrin	< 50.0	ug/kg	7/10/00	8080A
DDE	< 50.0	ug/kg	7/10/00	8080A
Endrin	< 50.0	ug/kg	7/10/00	8080A
Beta-Endosulfan	< 50.0	ug/kg	7/10/00	8080A
DDD	< 50.0	ug/kg	7/10/00	8080A
Endrin Aldehyde	< 50.0	ug/kg	7/10/00	8080A
Endosulfan Sulfate	< 50.0	ug/kg	7/10/00	8080A
DDT	< 50.0	ug/kg	7/10/00	8080A
Methoxychlor	< 50.0	ug/kg	7/10/00	8080A
Chlordane	< 500	ug/kg	7/10/00	8080A
Toxaphene	< 1,000	ug/kg	7/10/00	8080A
Herbicide Results:				
2,4-D	< 200	ug/kg	7/ 3/00	8150
2,4,5-T	< 20.0	ug/kg	7/ 3/00	8150
2,4,5-TP	< 20.0	ug/kg	7/ 3/00	8150
Trifluralin	< 50.0	ug/kg	7/10/00	3540
PCB Results:				

Lab Number: 00-D1529
Sample Number: 0004403
July 26, 2000

Analysis Performed	Results		Analyzed	Method
PCB-1016	< 250	ug/kg	7/10/00	8080A
PCB-1221	< 250	ug/kg	7/10/00	8080A
PCB-1232	< 250	ug/kg	7/10/00	8080A
PCB-1242	< 250	ug/kg	7/10/00	8080A
PCB-1248	< 250	ug/kg	7/10/00	8080A
PCB-1254	< 250	ug/kg	7/10/00	8080A
PCB-1260	< 250	ug/kg	7/10/00	8080A

VOA Comments:
A 1:5 dilution was analyzed to quantitate the target compounds due to matrix interference.

Metals results are reported on a dry weight basis

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

James H. Long, Director
Environmental Services Program
Division of Environmental Quality

c: KATHY FLIPPIN, HWP

Mel Carnahan, Governor • Stephen M. Mahfood, Director

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

RECEIVED
AUG 0 1 2000

ENVIRONMENTAL SERVICES PROGRAM

RESULTS OF SAMPLE ANALYSES

Sample Number: 0004404
Lab Number: 00-D1530

Reported To: DARLEEN WESTCOTT
Affiliation: HWP
Project Code: 4908/3000

Report Date: 7/26/00
Date Collected: 6/ 9/00
Date Received: 6/ 9/00

Sample Collected by: DARLEEN WESTCOTT, HWP
Sampling Location: INDUSTRIAL SERVICE CORP
Sample Description: SPLIT SAMPLING
BLUE SUMMIT, MO
EX12, SOIL SAMPLE, BASE

Analysis Performed	Results		Analyzed	Method
Silver, Total	< 1,000	ug/kg	6/14/00	200.7
Arsenic, Total	10,700	ug/kg	6/15/00	206.2
Barium, Total	435,000	ug/kg	6/14/00	200.7
Cadmium, Total	937	ug/kg	6/14/00	200.7
Chromium, Total	45,100	ug/kg	6/14/00	200.7
Mercury, Total	52.4	ug/kg	6/16/00	245.1
Lead, Total	17,300	ug/kg	6/14/00	239.2
Selenium, Total	< 2,000	ug/kg	6/15/00	270.2
VOA Results:				
Chloromethane	< 1,000	ug/kg	6/13/00	8260
Vinyl Chloride	< 50.0	ug/kg	6/13/00	8260
Bromomethane	< 250	ug/kg	6/13/00	8260
Chloroethane	< 250	ug/kg	6/13/00	8260
1,1-Dichloroethene	< 50.0	ug/kg	6/13/00	8260
Acetone	1,350	ug/kg	6/13/00	8260
Carbon Disulfide	< 50.0	ug/kg	6/13/00	8260
Methylene Chloride	< 1,000	ug/kg	6/13/00	8260
Methyl Tertiary Butyl Eth	< 100	ug/kg	6/13/00	8260
trans-1,2-Dichloroethene	< 50.0	ug/kg	6/13/00	8260
1,1-Dichloroethane	< 50.0	ug/kg	6/13/00	8260
2-Butanone	< 250	ug/kg	6/13/00	8260
cis-1,2-Dichloroethene	52.2	ug/kg	6/13/00	8260
Chloroform	< 50.0	ug/kg	6/13/00	8260

Recycled Paper

Lab Number: 00-D1530
Sample Number: 0004404
July 26, 2000

Analysis Performed	Results		Analyzed	Method
1,1,1-Trichloroethane	< 50.0	ug/kg	6/13/00	8260
Carbon Tetrachloride	< 50.0	ug/kg	6/13/00	8260
Benzene	71.1	ug/kg	6/13/00	8260
1,2-Dichloroethane	< 50.0	ug/kg	6/13/00	8260
Trichloroethene	< 50.0	ug/kg	6/13/00	8260
1,2-Dichloropropane	< 50.0	ug/kg	6/13/00	8260
Bromodichloromethane	< 50.0	ug/kg	6/13/00	8260
2-Hexanone	< 100	ug/kg	6/13/00	8260
Trans-1,3-Dichloropropene	< 50.0	ug/kg	6/13/00	8260
Toluene	2,220	ug/kg	6/13/00	8260
CIS-1,3-Dichloropropene	< 50.0	ug/kg	6/13/00	8260
1,1,2-Trichloroethane	< 50.0	ug/kg	6/13/00	8260
4-Methyl-2-Pentanone	< 50.0	ug/kg	6/13/00	8260
Tetrachloroethene	< 50.0	ug/kg	6/13/00	8260
Dibromochloromethane	< 50.0	ug/kg	6/13/00	8260
Chlorobenzene	< 50.0	ug/kg	6/13/00	8260
Ethylbenzene	1,790	ug/kg	6/13/00	8260
Total Xylenes	6,910	ug/kg	6/13/00	8260
Styrene	< 50.0	ug/kg	6/13/00	8260
Bromoform	< 50.0	ug/kg	6/13/00	8260
1,1,2,2-Tetrachloroethane	< 50.0	ug/kg	6/13/00	8260
1,3-Dichlorobenzene	< 50.0	ug/kg	6/13/00	8260
1,4-Dichlorobenzene	< 50.0	ug/kg	6/13/00	8260
1,2-Dichlorobenzene	< 50.0	ug/kg	6/13/00	8260
Diethyl Ether	< 1,000	ug/kg	6/13/00	8260
Iodomethane	< 250	ug/kg	6/13/00	8260
Acrylonitrile	< 100	ug/kg	6/13/00	8260
Allyl Chloride	< 50.0	ug/kg	6/13/00	8260
Propionitrile	< 1,000	ug/kg	6/13/00	8260
Methacrylonitrile	< 50.0	ug/kg	6/13/00	8260
Methyl Acrylate	< 500	ug/kg	6/13/00	8260
Tetrahydrofuran	< 250	ug/kg	6/13/00	8260
1-Chlorobutane	< 50.0	ug/kg	6/13/00	8260
Chloroacetonitrile	< 100	ug/kg	6/13/00	8260
2-Nitropropane	< 50.0	ug/kg	6/13/00	8260
Methylmethacrylate	< 50.0	ug/kg	6/13/00	8260
1,1-Dichloropropanone	< 100	ug/kg	6/13/00	8260
Ethyl Methacrylate	< 50.0	ug/kg	6/13/00	8260
t-1,4-Dichloro-2-butene	< 50.0	ug/kg	6/13/00	8260
Pentachloroethane	< 50.0	ug/kg	6/13/00	8260
Hexachloroethane	< 50.0	ug/kg	6/13/00	8260
Nitrobenzene	< 500	ug/kg	6/13/00	8260
Dichlorodifluoromethane	< 50.0	ug/kg	6/13/00	8260
Trichlorofluoromethane	< 250	ug/kg	6/13/00	8260
2,2-Dichloropropane	< 50.0	ug/kg	6/13/00	8260
Bromochloromethane	< 50.0	ug/kg	6/13/00	8260
1,1-Dichloropropene	< 50.0	ug/kg	6/13/00	8260

Lab Number: 00-D1530
Sample Number: 0004404
July 26, 2000

Analysis Performed	Results		Analyzed	Method
Dibromomethane	< 50.0	ug/kg	6/13/00	8260
1,3-Dichloropropane	< 50.0	ug/kg	6/13/00	8260
1,2-Dibromoethane	< 50.0	ug/kg	6/13/00	8260
1,1,1,2-Tetrachloroethane	< 50.0	ug/kg	6/13/00	8260
Isopropylbenzene	205	ug/kg	6/13/00	8260
1,2,3-Trichloropropane	< 50.0	ug/kg	6/13/00	8260
n-Propylbenzene	564	ug/kg	6/13/00	8260
Bromobenzene	< 50.0	ug/kg	6/13/00	8260
2-Chlorotoluene	< 50.0	ug/kg	6/13/00	8260
4-Chlorotoluene	< 50.0	ug/kg	6/13/00	8260
1,3,5-Trimethylbenzene	974	ug/kg	6/13/00	8260
tert-Butylbenzene	< 100	ug/kg	6/13/00	8260
1,2,4-Trimethylbenzene	3,370	ug/kg	6/13/00	8260
sec-Butylbenzene	200	ug/kg	6/13/00	8260
p-isopropyltoluene	321	ug/kg	6/13/00	8260
n-Butylbenzene	648	ug/kg	6/13/00	8260
1,2-Dibromo-3-Chloroprop	< 50.0	ug/kg	6/13/00	8260
1,2,4-Trichlorobenzene	< 50.0	ug/kg	6/13/00	8260
Hexachlorobutadiene	< 100	ug/kg	6/13/00	8260
Naphthalene	Not Analyzed.		6/13/00	8260
1,2,3-Trichlorobenzene	< 100	ug/kg	6/13/00	8260
Pesticide Results:				
Alpha - BHC	< 50.0	ug/kg	7/10/00	8080A
Beta - BHC	< 50.0	ug/kg	7/10/00	8080A
Gamma - BHC	< 50.0	ug/kg	7/10/00	8080A
Delta - BHC	< 50.0	ug/kg	7/10/00	8080A
Heptachlor	< 50.0	ug/kg	7/10/00	8080A
Aldrin	< 50.0	ug/kg	7/10/00	8080A
Heptachlor Epoxide	< 50.0	ug/kg	7/10/00	8080A
Alpha - Endosulfan	< 50.0	ug/kg	7/10/00	8080A
Dieldrin	< 50.0	ug/kg	7/10/00	8080A
DDE	< 50.0	ug/kg	7/10/00	8080A
Endrin	< 50.0	ug/kg	7/10/00	8080A
Beta-Endosulfan	< 50.0	ug/kg	7/10/00	8080A
DDD	< 50.0	ug/kg	7/10/00	8080A
Endrin Aldehyde	< 50.0	ug/kg	7/10/00	8080A
Endosulfan Sulfate	< 50.0	ug/kg	7/10/00	8080A
DDT	< 50.0	ug/kg	7/10/00	8080A
Methoxychlor	< 50.0	ug/kg	7/10/00	8080A
Chlordane	< 500	ug/kg	7/10/00	8080A
Toxaphene	< 1,000	ug/kg	7/10/00	8080A
Herbicide Results:				
2,4-D	< 200	ug/kg	7/ 3/00	8150
2,4,5-T	< 20.0	ug/kg	7/ 3/00	8150
2,4,5-TP	< 20.0	ug/kg	7/ 3/00	8150
Trifluralin	< 50.0	ug/kg	7/10/00	3540
PCB Results:				

Lab Number: 00-D1530
Sample Number: 0004404
July 26, 2000

Analysis Performed	Results		Analyzed	Method
PCB-1016	< 250	ug/kg	7/10/00	8080A
PCB-1221	< 250	ug/kg	7/10/00	8080A
PCB-1232	< 250	ug/kg	7/10/00	8080A
PCB-1242	< 250	ug/kg	7/10/00	8080A
PCB-1248	< 250	ug/kg	7/10/00	8080A
PCB-1254	< 250	ug/kg	7/10/00	8080A
PCB-1260	< 250	ug/kg	7/10/00	8080A

VOA Comments:
a 1:10 dilution was analyzed to quantitate the target compounds due to matrix interference,

Metals results are reported on a dry weight basis

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

James H. Long, Director
Environmental Services Program
Division of Environmental Quality

c: KATHY FLIPPIN, HWP

Mel Carnahan, Governor • Stephen M. Mahfood, Director

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

ENVIRONMENTAL SERVICES PROGRAM

RESULTS OF SAMPLE ANALYSES

Sample Number: 0004405
Lab Number: 00-D1531

Reported To: DARLEEN WESTCOTT
Affiliation: HWP
Project Code: 4908/3000

Report Date: 7/26/00
Date Collected: 6/ 9/00
Date Received: 6/ 9/00

Sample Collected by: DARLEEN WESTCOTT, HWP
Sampling Location: INDUSTRIAL SERVICE CORP
Sample Description: SPLIT SAMPLING
BLUE SUMMIT, MO
EX14, SOIL SAMPLE, MIDDLE

Analysis Performed	Results		Analyzed	Method
Silver, Total	< 1,000	ug/kg	6/14/00	200.7
Arsenic, Total	10,500	ug/kg	6/15/00	206.2
Barium, Total	303,000	ug/kg	6/14/00	200.7
Cadmium, Total	665	ug/kg	6/14/00	200.7
Chromium, Total	44,500	ug/kg	6/14/00	200.7
Mercury, Total	< 40.0	ug/kg	6/16/00	245.1
Lead, Total	11,100	ug/kg	6/14/00	239.2
Selenium, Total	< 2,000	ug/kg	6/15/00	270.2
VOA Results:				
Chloromethane	< 500	ug/kg	6/14/00	8260
Vinyl Chloride	< 25.0	ug/kg	6/14/00	8260
Bromomethane	< 125	ug/kg	6/14/00	8260
Chloroethane	< 125	ug/kg	6/14/00	8260
1,1-Dichloroethene	< 25.0	ug/kg	6/14/00	8260
Acetone	< 500	ug/kg	6/14/00	8260
Carbon Disulfide	< 25.0	ug/kg	6/14/00	8260
Methylene Chloride	< 500	ug/kg	6/14/00	8260
Methyl Tertiary Butyl Eth	< 50.0	ug/kg	6/14/00	8260
trans-1,2-Dichloroethene	< 25.0	ug/kg	6/14/00	8260
1,1-Dichloroethane	< 25.0	ug/kg	6/14/00	8260
2-Butanone	< 125	ug/kg	6/14/00	8260
cis-1,2-Dichloroethene	< 25.0	ug/kg	6/14/00	8260
Chloroform	< 25.0	ug/kg	6/14/00	8260

Recycled Paper

Lab Number: 00-D1531
Sample Number: 0004405
July 26, 2000

Analysis Performed	Results		Analyzed	Method
1,1,1-Trichloroethane	< 25.0	ug/kg	6/14/00	8260
Carbon Tetrachloride	< 25.0	ug/kg	6/14/00	8260
Benzene	< 25.0	ug/kg	6/14/00	8260
1,2-Dichloroethane	< 25.0	ug/kg	6/14/00	8260
Trichloroethene	< 25.0	ug/kg	6/14/00	8260
1,2-Dichloropropane	< 25.0	ug/kg	6/14/00	8260
Bromodichloromethane	< 25.0	ug/kg	6/14/00	8260
2-Hexanone	< 50.0	ug/kg	6/14/00	8260
Trans-1,3-Dichloropropene	< 25.0	ug/kg	6/14/00	8260
Toluene	< 25.0	ug/kg	6/14/00	8260
CIS-1,3-Dichloropropene	< 25.0	ug/kg	6/14/00	8260
1,1,2-Trichloroethane	< 25.0	ug/kg	6/14/00	8260
4-Methyl-2-Pentanone	< 25.0	ug/kg	6/14/00	8260
Tetrachloroethene	< 25.0	ug/kg	6/14/00	8260
Dibromochloromethane	< 25.0	ug/kg	6/14/00	8260
Chlorobenzene	< 25.0	ug/kg	6/14/00	8260
Ethylbenzene	< 25.0	ug/kg	6/14/00	8260
Total Xylenes	< 50.0	ug/kg	6/14/00	8260
Styrene	< 25.0	ug/kg	6/14/00	8260
Bromoform	< 25.0	ug/kg	6/14/00	8260
1,1,2,2-Tetrachloroethane	< 25.0	ug/kg	6/14/00	8260
1,3-Dichlorobenzene	< 25.0	ug/kg	6/14/00	8260
1,4-Dichlorobenzene	< 25.0	ug/kg	6/14/00	8260
1,2-Dichlorobenzene	< 25.0	ug/kg	6/14/00	8260
Diethyl Ether	< 500	ug/kg	6/14/00	8260
Iodomethane	< 125	ug/kg	6/14/00	8260
Acrylonitrile	< 50.0	ug/kg	6/14/00	8260
Allyl Chloride	< 25.0	ug/kg	6/14/00	8260
Propionitrile	< 500	ug/kg	6/14/00	8260
Methacrylonitrile	< 25.0	ug/kg	6/14/00	8260
Methyl Acrylate	< 250	ug/kg	6/14/00	8260
Tetrahydrofuran	< 125	ug/kg	6/14/00	8260
1-Chlorobutane	< 25.0	ug/kg	6/14/00	8260
Chloroacetonitrile	< 50.0	ug/kg	6/14/00	8260
2-Nitropropane	< 25.0	ug/kg	6/14/00	8260
Methylmethacrylate	< 25.0	ug/kg	6/14/00	8260
1,1-Dichloropropanone	< 50.0	ug/kg	6/14/00	8260
Ethyl Methacrylate	< 25.0	ug/kg	6/14/00	8260
t-1,4-Dichloro-2-butene	< 25.0	ug/kg	6/14/00	8260
Pentachloroethane	< 25.0	ug/kg	6/14/00	8260
Hexachloroethane	< 25.0	ug/kg	6/14/00	8260
Nitrobenzene	< 250	ug/kg	6/14/00	8260
Dichlorodifluoromethane	< 25.0	ug/kg	6/14/00	8260
Trichlorofluoromethane	< 125	ug/kg	6/14/00	8260
2,2-Dichloropropane	< 25.0	ug/kg	6/14/00	8260
Bromochloromethane	< 25.0	ug/kg	6/14/00	8260
1,1-Dichloropropene	< 25.0	ug/kg	6/14/00	8260

Lab Number: 00-D1531
Sample Number: 0004405
July 26, 2000

Analysis Performed	Results		Analyzed	Method
Dibromomethane	< 25.0	ug/kg	6/14/00	8260
1,3-Dichloropropane	< 25.0	ug/kg	6/14/00	8260
1,2-Dibromoethane	< 25.0	ug/kg	6/14/00	8260
1,1,1,2-Tetrachloroethane	< 25.0	ug/kg	6/14/00	8260
Isopropylbenzene	< 25.0	ug/kg	6/14/00	8260
1,2,3-Trichloropropane	< 25.0	ug/kg	6/14/00	8260
n-Propylbenzene	< 25.0	ug/kg	6/14/00	8260
Bromobenzene	< 25.0	ug/kg	6/14/00	8260
2-Chlorotoluene	< 25.0	ug/kg	6/14/00	8260
4-Chlorotoluene	< 25.0	ug/kg	6/14/00	8260
1,3,5-Trimethylbenzene	< 25.0	ug/kg	6/14/00	8260
tert-Butylbenzene	< 50.0	ug/kg	6/14/00	8260
1,2,4-Trimethylbenzene	< 25.0	ug/kg	6/14/00	8260
sec-Butylbenzene	< 25.0	ug/kg	6/14/00	8260
p-isopropyltoluene	< 25.0	ug/kg	6/14/00	8260
n-Butylbenzene	< 25.0	ug/kg	6/14/00	8260
1,2-Dibromo-3-Chloroprop	< 25.0	ug/kg	6/14/00	8260
1,2,4-Trichlorobenzene	< 25.0	ug/kg	6/14/00	8260
Hexachlorobutadiene	< 50.0	ug/kg	6/14/00	8260
Naphthalene	Not Analyzed.		6/14/00	8260
1,2,3-Trichlorobenzene	< 50.0	ug/kg	6/14/00	8260
Pesticide Results:				
Alpha - BHC	< 50.0	ug/kg	7/11/00	8080A
Beta - BHC	< 50.0	ug/kg	7/11/00	8080A
Gamma - BHC	< 50.0	ug/kg	7/11/00	8080A
Delta - BHC	< 50.0	ug/kg	7/11/00	8080A
Heptachlor	< 50.0	ug/kg	7/11/00	8080A
Aldrin	< 50.0	ug/kg	7/11/00	8080A
Heptachlor Epoxide	< 50.0	ug/kg	7/11/00	8080A
Alpha - Endosulfan	< 50.0	ug/kg	7/11/00	8080A
Dieldrin	< 50.0	ug/kg	7/11/00	8080A
DDE	< 50.0	ug/kg	7/11/00	8080A
Endrin	< 50.0	ug/kg	7/11/00	8080A
Beta-Endosulfan	< 50.0	ug/kg	7/11/00	8080A
DDD	< 50.0	ug/kg	7/11/00	8080A
Endrin Aldehyde	< 50.0	ug/kg	7/11/00	8080A
Endosulfan Sulfate	< 50.0	ug/kg	7/11/00	8080A
DDT	< 50.0	ug/kg	7/11/00	8080A
Methoxychlor	< 50.0	ug/kg	7/11/00	8080A
Chlordane	< 500	ug/kg	7/11/00	8080A
Toxaphene	< 1,000	ug/kg	7/11/00	8080A
Herbicide Results:				
2,4-D	< 200	ug/kg	7/ 3/00	8150
2,4,5-T	< 20.0	ug/kg	7/ 3/00	8150
2,4,5-TP	< 20.0	ug/kg	7/ 3/00	8150
Trifluralin	< 50.0	ug/kg	7/11/00	3540
PCB Results:				

Lab Number: 00-D1531
Sample Number: 0004405
July 26, 2000

Analysis Performed	Results		Analyzed	Method
PCB-1016	< 250	ug/kg	7/11/00	8080A
PCB-1221	< 250	ug/kg	7/11/00	8080A
PCB-1232	< 250	ug/kg	7/11/00	8080A
PCB-1242	< 250	ug/kg	7/11/00	8080A
PCB-1248	< 250	ug/kg	7/11/00	8080A
PCB-1254	< 250	ug/kg	7/11/00	8080A
PCB-1260	< 250	ug/kg	7/11/00	8080A

VOA Comments:
A 1:5 dilution was analyzed to quantitate the target compounds due to matrix interference.

Metals results are reported on a dry weight basis

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

James H. Long, Director
Environmental Services Program
Division of Environmental Quality

c: KATHY FLIPPIN, HWP

Mel Carnahan, Governor • Stephen M. Mahfood, Director

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

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ENVIRONMENTAL SERVICES PROGRAM

RESULTS OF SAMPLE ANALYSES

Sample Number: 0004402
Lab Number: 00-D1528

Reported To: DARLEEN WESTCOTT
Affiliation: HWP
Project Code: 4908/3000

Report Date: 7/26/00
Date Collected: 6/ 9/00
Date Received: 6/ 9/00

Sample Collected by: DARLEEN WESTCOTT, HWP
Sampling Location: INDUSTRIAL SERVICE CORP
Sample Description: SPLIT SAMPLING
BLUE SUMMIT, MO
EX6, SOIL SAMPLE BASE

Analysis Performed	Results		Analyzed	Method
Silver, Total	< 1,000	ug/kg	6/14/00	200.7
Arsenic, Total	9,910	ug/kg	6/15/00	206.2
Barium, Total	424,000	ug/kg	6/14/00	200.7
Cadmium, Total	852	ug/kg	6/14/00	200.7
Chromium, Total	45,100	ug/kg	6/14/00	200.7
Mercury, Total	42.5	ug/kg	6/16/00	245.1
Lead, Total	35,800	ug/kg	6/14/00	239.2
Selenium, Total	< 2,000	ug/kg	6/15/00	270.2
VOA Results:				
Chloromethane	< 500	ug/kg	6/12/00	8260
Vinyl Chloride	< 25.0	ug/kg	6/12/00	8260
Bromomethane	< 125	ug/kg	6/12/00	8260
Chloroethane	< 125	ug/kg	6/12/00	8260
1,1-Dichloroethene	< 25.0	ug/kg	6/12/00	8260
Acetone	< 500	ug/kg	6/12/00	8260
Carbon Disulfide	< 25.0	ug/kg	6/12/00	8260
Methylene Chloride	< 500	ug/kg	6/12/00	8260
Methyl Tertiary Butyl Eth	< 50.0	ug/kg	6/12/00	8260
trans-1,2-Dichloroethene	< 25.0	ug/kg	6/12/00	8260
1,1-Dichloroethane	< 25.0	ug/kg	6/12/00	8260
2-Butanone	< 125	ug/kg	6/12/00	8260
cis-1,2-Dichloroethene	< 25.0	ug/kg	6/12/00	8260
Chloroform	< 25.0	ug/kg	6/12/00	8260

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Lab Number: 00-D1528
Sample Number: 0004402
July 26, 2000

Analysis Performed	Results		Analyzed	Method
1,1,1-Trichloroethane	< 25.0	ug/kg	6/12/00	8260
Carbon Tetrachloride	< 25.0	ug/kg	6/12/00	8260
Benzene	< 25.0	ug/kg	6/12/00	8260
1,2-Dichloroethane	< 25.0	ug/kg	6/12/00	8260
Trichloroethene	< 25.0	ug/kg	6/12/00	8260
1,2-Dichloropropane	< 25.0	ug/kg	6/12/00	8260
Bromodichloromethane	< 25.0	ug/kg	6/12/00	8260
2-Hexanone	< 50.0	ug/kg	6/12/00	8260
Trans-1,3-Dichloropropene	< 25.0	ug/kg	6/12/00	8260
Toluene	< 25.0	ug/kg	6/12/00	8260
CIS-1,3-Dichloropropene	< 25.0	ug/kg	6/12/00	8260
1,1,2-Trichloroethane	< 25.0	ug/kg	6/12/00	8260
4-Methyl-2-Pentanone	< 25.0	ug/kg	6/12/00	8260
Tetrachloroethene	< 25.0	ug/kg	6/12/00	8260
Dibromochloromethane	< 25.0	ug/kg	6/12/00	8260
Chlorobenzene	< 25.0	ug/kg	6/12/00	8260
Ethylbenzene	< 25.0	ug/kg	6/12/00	8260
Total Xylenes	< 50.0	ug/kg	6/12/00	8260
Styrene	< 25.0	ug/kg	6/12/00	8260
Bromoform	< 25.0	ug/kg	6/12/00	8260
1,1,2,2-Tetrachloroethane	< 25.0	ug/kg	6/12/00	8260
1,3-Dichlorobenzene	< 25.0	ug/kg	6/12/00	8260
1,4-Dichlorobenzene	< 25.0	ug/kg	6/12/00	8260
1,2-Dichlorobenzene	< 25.0	ug/kg	6/12/00	8260
Diethyl Ether	< 500	ug/kg	6/12/00	8260
Iodomethane	< 125	ug/kg	6/12/00	8260
Acrylonitrile	< 50.0	ug/kg	6/12/00	8260
Allyl Chloride	< 25.0	ug/kg	6/12/00	8260
Propionitrile	< 500	ug/kg	6/12/00	8260
Methacrylonitrile	< 25.0	ug/kg	6/12/00	8260
Methyl Acrylate	< 250	ug/kg	6/12/00	8260
Tetrahydrofuran	< 125	ug/kg	6/12/00	8260
1-Chlorobutane	< 25.0	ug/kg	6/12/00	8260
Chloroacetonitrile	< 50.0	ug/kg	6/12/00	8260
2-Nitropropane	< 25.0	ug/kg	6/12/00	8260
Methylmethacrylate	< 25.0	ug/kg	6/12/00	8260
1,1-Dichloropropanone	< 50.0	ug/kg	6/12/00	8260
Ethyl Methacrylate	< 25.0	ug/kg	6/12/00	8260
t-1,4-Dichloro-2-butene	< 25.0	ug/kg	6/12/00	8260
Pentachloroethane	< 25.0	ug/kg	6/12/00	8260
Hexachloroethane	< 25.0	ug/kg	6/12/00	8260
Nitrobenzene	< 250	ug/kg	6/12/00	8260
Dichlorodifluoromethane	< 25.0	ug/kg	6/12/00	8260
Trichlorofluoromethane	< 125	ug/kg	6/12/00	8260
2,2-Dichloropropane	< 25.0	ug/kg	6/12/00	8260
Bromochloromethane	< 25.0	ug/kg	6/12/00	8260
1,1-Dichloropropene	< 25.0	ug/kg	6/12/00	8260

Lab Number: 00-D1528
Sample Number: 0004402
July 26, 2000

Analysis Performed	Results		Analyzed	Method
Dibromomethane	< 25.0	ug/kg	6/12/00	8260
1,3-Dichloropropane	< 25.0	ug/kg	6/12/00	8260
1,2-Dibromoethane	< 25.0	ug/kg	6/12/00	8260
1,1,1,2-Tetrachloroethane	< 25.0	ug/kg	6/12/00	8260
Isopropylbenzene	< 25.0	ug/kg	6/12/00	8260
1,2,3-Trichloropropane	< 25.0	ug/kg	6/12/00	8260
n-Propylbenzene	< 25.0	ug/kg	6/12/00	8260
Bromobenzene	< 25.0	ug/kg	6/12/00	8260
2-Chlorotoluene	< 25.0	ug/kg	6/12/00	8260
4-Chlorotoluene	< 25.0	ug/kg	6/12/00	8260
1,3,5-Trimethylbenzene	< 25.0	ug/kg	6/12/00	8260
tert-Butylbenzene	< 50.0	ug/kg	6/12/00	8260
1,2,4-Trimethylbenzene	< 25.0	ug/kg	6/12/00	8260
sec-Butylbenzene	< 25.0	ug/kg	6/12/00	8260
p-isopropyltoluene	< 25.0	ug/kg	6/12/00	8260
n-Butylbenzene	< 25.0	ug/kg	6/12/00	8260
1,2-Dibromo-3-Chloroprop	< 25.0	ug/kg	6/12/00	8260
1,2,4-Trichlorobenzene	< 25.0	ug/kg	6/12/00	8260
Hexachlorobutadiene	< 50.0	ug/kg	6/12/00	8260
Naphthalene	Not Analyzed.		6/12/00	8260
1,2,3-Trichlorobenzene	< 50.0	ug/kg	6/12/00	8260
Pesticide Results:				
Alpha - BHC	< 50.0	ug/kg	7/10/00	8080A
Beta - BHC	< 50.0	ug/kg	7/10/00	8080A
Gamma - BHC	< 50.0	ug/kg	7/10/00	8080A
Delta - BHC	< 50.0	ug/kg	7/10/00	8080A
Heptachlor	< 50.0	ug/kg	7/10/00	8080A
Aldrin	< 50.0	ug/kg	7/10/00	8080A
Heptachlor Epoxide	< 50.0	ug/kg	7/10/00	8080A
Alpha - Endosulfan	< 50.0	ug/kg	7/10/00	8080A
Dieldrin	< 50.0	ug/kg	7/10/00	8080A
DDE	< 50.0	ug/kg	7/10/00	8080A
Endrin	< 50.0	ug/kg	7/10/00	8080A
Beta-Endosulfan	< 50.0	ug/kg	7/10/00	8080A
DDD	< 50.0	ug/kg	7/10/00	8080A
Endrin Aldehyde	< 50.0	ug/kg	7/10/00	8080A
Endosulfan Sulfate	< 50.0	ug/kg	7/10/00	8080A
DDT	< 50.0	ug/kg	7/10/00	8080A
Methoxychlor	< 50.0	ug/kg	7/10/00	8080A
Chlordane	< 500	ug/kg	7/10/00	8080A
Toxaphene	< 1,000	ug/kg	7/10/00	8080A
Herbicide Results:				
2,4-D	< 200	ug/kg	7/ 3/00	8150
2,4,5-T	< 20.0	ug/kg	7/ 3/00	8150
2,4,5-TP	< 20.0	ug/kg	7/ 3/00	8150
Trifluralin	< 50.0	ug/kg	7/10/00	3540
PCB Results:				

Lab Number: 00-D1528
Sample Number: 0004402
July 26, 2000

Analysis Performed	Results		Analyzed	Method
PCB-1016	< 250	ug/kg	7/10/00	8080A
PCB-1221	< 250	ug/kg	7/10/00	8080A
PCB-1232	< 250	ug/kg	7/10/00	8080A
PCB-1242	< 250	ug/kg	7/10/00	8080A
PCB-1248	< 250	ug/kg	7/10/00	8080A
PCB-1254	< 250	ug/kg	7/10/00	8080A
PCB-1260	366	ug/kg	7/10/00	8080A

VOA Comments:
A 1:5 dilution was analyzed to quantitate the target compounds due to matrix interference.

Metals results are reported on a dry weight basis

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

James H. Long, Director
Environmental Services Program
Division of Environmental Quality

c: KATHY FLIPPIN, HWP

Mel Carnahan, Governor • Stephen M. Mahfood, Director

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

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ENVIRONMENTAL SERVICES PROGRAM

RESULTS OF SAMPLE ANALYSES

Sample Number: 0004401
Lab Number: 00-D1527

Reported To: DARLEEN WESTCOTT
Affiliation: HWP
Project Code: 4908/3000

Report Date: 7/26/00
Date Collected: 6/ 9/00
Date Received: 6/ 9/00

Sample Collected by: DARLEEN WESTCOTT, HWP
Sampling Location: INDUSTRIAL SERVICE CORP
Sample Description: BLUE SUMMIT, MO
SPLIT SAMPLING
EX4, SOIL SAMPLE, 0-6

Analysis Performed	Results		Analyzed	Method
Silver, Total	< 1,000	ug/kg	6/14/00	200.7
Arsenic, Total	6,570	ug/kg	6/15/00	206.2
Barium, Total	184,000	ug/kg	6/14/00	200.7
Cadmium, Total	681	ug/kg	6/14/00	200.7
Chromium, Total	75,700	ug/kg	6/14/00	200.7
Mercury, Total	40.5	ug/kg	6/16/00	245.1
Lead, Total	4,010	ug/kg	6/14/00	239.2
Selenium, Total	< 2,000	ug/kg	6/15/00	270.2
VOA Results:				
Chloromethane	< 500	ug/kg	6/14/00	8260
Vinyl Chloride	< 25.0	ug/kg	6/14/00	8260
Bromomethane	< 125	ug/kg	6/14/00	8260
Chloroethane	< 125	ug/kg	6/14/00	8260
1,1-Dichloroethene	< 25.0	ug/kg	6/14/00	8260
Acetone	< 500	ug/kg	6/14/00	8260
Carbon Disulfide	< 25.0	ug/kg	6/14/00	8260
Methylene Chloride	< 500	ug/kg	6/14/00	8260
Methyl Tertiary Butyl Eth	< 50.0	ug/kg	6/14/00	8260
trans-1,2-Dichloroethene	< 25.0	ug/kg	6/14/00	8260
1,1-Dichloroethane	< 25.0	ug/kg	6/14/00	8260
2-Butanone	< 125	ug/kg	6/14/00	8260
cis-1,2-Dichloroethene	< 25.0	ug/kg	6/14/00	8260
Chloroform	< 25.0	ug/kg	6/14/00	8260

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Analysis Performed	Results		Analyzed	Method
1,1,1-Trichloroethane	< 25.0	ug/kg	6/14/00	8260
Carbon Tetrachloride	< 25.0	ug/kg	6/14/00	8260
Benzene	< 25.0	ug/kg	6/14/00	8260
1,2-Dichloroethane	< 25.0	ug/kg	6/14/00	8260
Trichloroethene	< 25.0	ug/kg	6/14/00	8260
1,2-Dichloropropane	< 25.0	ug/kg	6/14/00	8260
Bromodichloromethane	< 25.0	ug/kg	6/14/00	8260
2-Hexanone	< 50.0	ug/kg	6/14/00	8260
Trans-1,3-Dichloropropene	< 25.0	ug/kg	6/14/00	8260
Toluene	< 25.0	ug/kg	6/14/00	8260
CIS-1,3-Dichloropropene	< 25.0	ug/kg	6/14/00	8260
1,1,2-Trichloroethane	< 25.0	ug/kg	6/14/00	8260
4-Methyl-2-Pentanone	< 25.0	ug/kg	6/14/00	8260
Tetrachloroethene	< 25.0	ug/kg	6/14/00	8260
Dibromochloromethane	< 25.0	ug/kg	6/14/00	8260
Chlorobenzene	< 25.0	ug/kg	6/14/00	8260
Ethylbenzene	< 25.0	ug/kg	6/14/00	8260
Total Xylenes	< 50.0	ug/kg	6/14/00	8260
Styrene	< 25.0	ug/kg	6/14/00	8260
Bromoform	< 25.0	ug/kg	6/14/00	8260
1,1,2,2-Tetrachloroethane	< 25.0	ug/kg	6/14/00	8260
1,3-Dichlorobenzene	< 25.0	ug/kg	6/14/00	8260
1,4-Dichlorobenzene	< 25.0	ug/kg	6/14/00	8260
1,2-Dichlorobenzene	< 25.0	ug/kg	6/14/00	8260
Diethyl Ether	< 500	ug/kg	6/14/00	8260
Iodomethane	< 125	ug/kg	6/14/00	8260
Acrylonitrile	< 50.0	ug/kg	6/14/00	8260
Allyl Chloride	< 25.0	ug/kg	6/14/00	8260
Propionitrile	< 500	ug/kg	6/14/00	8260
Methacrylonitrile	< 25.0	ug/kg	6/14/00	8260
Methyl Acrylate	< 250	ug/kg	6/14/00	8260
Tetrahydrofuran	< 125	ug/kg	6/14/00	8260
1-Chlorobutane	< 25.0	ug/kg	6/14/00	8260
Chloroacetonitrile	< 50.0	ug/kg	6/14/00	8260
2-Nitropropane	< 25.0	ug/kg	6/14/00	8260
Methylmethacrylate	< 25.0	ug/kg	6/14/00	8260
1,1-Dichloropropanone	< 50.0	ug/kg	6/14/00	8260
Ethyl Methacrylate	< 25.0	ug/kg	6/14/00	8260
t-1,4-Dichloro-2-butene	< 25.0	ug/kg	6/14/00	8260
Pentachloroethane	< 25.0	ug/kg	6/14/00	8260
Hexachloroethane	< 25.0	ug/kg	6/14/00	8260
Nitrobenzene	< 250	ug/kg	6/14/00	8260
Dichlorodifluoromethane	< 25.0	ug/kg	6/14/00	8260
Trichlorofluoromethane	< 125	ug/kg	6/14/00	8260
2,2-Dichloropropane	< 25.0	ug/kg	6/14/00	8260
Bromochloromethane	< 25.0	ug/kg	6/14/00	8260
1,1-Dichloropropene	< 25.0	ug/kg	6/14/00	8260

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Analysis Performed	Results		Analyzed	Method
Dibromomethane	< 25.0	ug/kg	6/14/00	8260
1,3-Dichloropropane	< 25.0	ug/kg	6/14/00	8260
1,2-Dibromoethane	< 25.0	ug/kg	6/14/00	8260
1,1,1,2-Tetrachloroethane	< 25.0	ug/kg	6/14/00	8260
Isopropylbenzene	< 25.0	ug/kg	6/14/00	8260
1,2,3-Trichloropropane	< 25.0	ug/kg	6/14/00	8260
n-Propylbenzene	< 25.0	ug/kg	6/14/00	8260
Bromobenzene	< 25.0	ug/kg	6/14/00	8260
2-Chlorotoluene	< 25.0	ug/kg	6/14/00	8260
4-Chlorotoluene	< 25.0	ug/kg	6/14/00	8260
1,3,5-Trimethylbenzene	< 25.0	ug/kg	6/14/00	8260
tert-Butylbenzene	< 50.0	ug/kg	6/14/00	8260
1,2,4-Trimethylbenzene	< 25.0	ug/kg	6/14/00	8260
sec-Butylbenzene	< 25.0	ug/kg	6/14/00	8260
p-isopropyltoluene	< 25.0	ug/kg	6/14/00	8260
n-Butylbenzene	< 25.0	ug/kg	6/14/00	8260
1,2-Dibromo-3-Chloroprop	< 25.0	ug/kg	6/14/00	8260
1,2,4-Trichlorobenzene	< 25.0	ug/kg	6/14/00	8260
Hexachlorobutadiene	< 50.0	ug/kg	6/14/00	8260
Naphthalene	Not Analyzed.		6/14/00	8260
1,2,3-Trichlorobenzene	< 50.0	ug/kg	6/14/00	8260
Pesticide Results:				
Alpha - BHC	< 50.0	ug/kg	7/10/00	8080A
Beta - BHC	< 50.0	ug/kg	7/10/00	8080A
Gamma - BHC	< 50.0	ug/kg	7/10/00	8080A
Delta - BHC	< 50.0	ug/kg	7/10/00	8080A
Heptachlor	< 50.0	ug/kg	7/10/00	8080A
Aldrin	< 50.0	ug/kg	7/10/00	8080A
Heptachlor Epoxide	< 50.0	ug/kg	7/10/00	8080A
Alpha - Endosulfan	< 50.0	ug/kg	7/10/00	8080A
Dieldrin	< 50.0	ug/kg	7/10/00	8080A
DDE	< 50.0	ug/kg	7/10/00	8080A
Endrin	< 50.0	ug/kg	7/10/00	8080A
Beta-Endosulfan	< 50.0	ug/kg	7/10/00	8080A
DDD	< 50.0	ug/kg	7/10/00	8080A
Endrin Aldehyde	< 50.0	ug/kg	7/10/00	8080A
Endosulfan Sulfate	< 50.0	ug/kg	7/10/00	8080A
DDT	< 50.0	ug/kg	7/10/00	8080A
Methoxychlor	< 50.0	ug/kg	7/10/00	8080A
Chlordane	< 500	ug/kg	7/10/00	8080A
Toxaphene	< 1,000	ug/kg	7/10/00	8080A
Herbicide Results:				
2,4-D	< 200	ug/kg	7/ 3/00	8150
2,4,5-T	< 20.0	ug/kg	7/ 3/00	8150
2,4,5-TP	< 20.0	ug/kg	7/ 3/00	8150
Trifluralin	< 50.0	ug/kg	7/10/00	3540
PCB Results:				

Lab Number: 00-D1527
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Analysis Performed	Results		Analyzed	Method
PCB-1016	< 250	ug/kg	7/10/00	8080A
PCB-1221	< 250	ug/kg	7/10/00	8080A
PCB-1232	< 250	ug/kg	7/10/00	8080A
PCB-1242	< 250	ug/kg	7/10/00	8080A
PCB-1248	< 250	ug/kg	7/10/00	8080A
PCB-1254	< 250	ug/kg	7/10/00	8080A
PCB-1260	< 250	ug/kg	7/10/00	8080A

VOA Comments:
A 1:5 dilution was analyzed to quantitate the target compounds due to matrix interference.

Metals results are reported on a dry weight basis

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

James H. Long, Director
Environmental Services Program
Division of Environmental Quality

c: KATHY FLIPPIN, HWP