Doc ID 352516 – 104(E) Response - AECOM - Part 13

(This document is a compilation of multiple prior Doc IDs)

EPA Region 5 Records Ctr.
350130

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SUMP
SUMP SOLIDS RESULTS

VOLATILE ORGANIC COMPOUNDS: Units are in Micrograms per Kilogram (ug/Kg)

Sample Location	Date Collected	2-butanone	Tetrachloro-ethene	Trichloro-ethene	Methylene Chloride
VAP RESIDENTIAL LIMITS ug/Kg		6,600,000	94,000	77,000	220,000
VAP INDUSTRIAL LIMITS ug/Kg		27,000,000	370,000	330,000	990,000
WS00001	10/2/98	2500 JB	**260,000**	**49,000**	6,400 JB

SEMI-VOLATILE ORGANIC COMPOUNDS: Units are in Micrograms per Kilogram (ug/Kg)

Sample Location	Date Collected	Fluoranthene	Pyrene	bis- (2-Ethylhexyl) phthalate	Di-n-octyl-phthalate	Benzo (b) fluor-anthene
VAP RESIDENTIAL LIMITS ug/Kg		1,300,000	950,000	150,000	---	5,500
VAP INDUSTRIAL LIMITS ug/Kg		12,000,000	8,900,000	860,000	---	31,000
WS00001	10/2/98	65 J	66 J	530 B	170 J	45 J

PESTICIDE ORGANICS: Units are in Micrograms per Kilogram (ug/Kg)

Sample Location	Date Collected	Aroclor 1254
VAP RESIDENTIAL LIMITS ug/Kg		1,000
VAP INDUSTRIAL LIMITS ug/Kg		25,000
WS00001	10/2/98	61

INORGANICS: Units are in Milligrams per Kilogram (mg/Kg)

Sample Location	Date Collected	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
VAP RESIDENTIAL LIMITS mg/Kg		6.90	5,000.00	32.00	230.00	400	16.00	---	---
VAP INDUSTRIAL LIMITS mg/Kg		86.00	140,000.00	300.00	2,800.00	2,800	230.00	---	---
WS00001	10/2/98	6.8 N	**70.7**	**1.4**	23.7 N	**43.3**	0.06 C	< 0.62	< 0.07

TCLP INORGANICS: Units are in Micrograms per Liter (ug/L)

Sample Location	Date Collected	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
VAP RESIDENTIAL LIMITS ug/L		---	---	---	---	---	---	---	---
VAP INDUSTRIAL LIMITS ug/L		---	---	---	---	---	---	---	---
WS00001	10/2/98	6.4 B	**589**	**6.8**	1.6 B	87.2 E	< 0.10	16.6 *	< 0.60

Sample Location	Date Collected	Ignitability (deg F)	Reactive Cyanide (mg/Kg)	Reactive Sulfide (mg/Kg)	Total Organic Halide (mg/Kg)	Corrosivity by pH
WS00001	10/2/98	> 140	< 125	< 125	< 200	7.05

SEE FOOTNOTES ON THE FOLLOWNG PAGE:

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SUMP
SUMP SOLIDS RESULTS

VOLATILE ORGANIC COMPOUNDS: Units are in Micrograms per Kilogram (ug/Kg)

VAP MCLs RESIDENTIAL: VOLUNTARY ACTION PROGRAM GENERIC DIRECT-CONTACT SOIL STANDARDS, RESIDENTIAL LAND USE CATEGORY, 1998 1st ADDIT

WS00001: SOLID WASTE

TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE

mg/Kg: MILLIGRAMS PER KILOGRAM

ug/Kg: MICROGRAMS PER KILOGRAM

ug/L: MICROGRAMS PER LITER

deg F: DEGREES FAHRENHEIT

B: ANALYTE WAS FOUND IN THE ASSOCIATED BLANK AS WELL AS THE SAMPLE.

C: RESULT IS GREATER THAN INSTRUMENT DETECTION LIMIT BUT LESS THAN CONTRACT REQUIRED DETECTION LIMIT

N: SAMPLE SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS

e: ESTIMATED VALUE

J: ESTIMATED VALUE

*: SAMPLE AND SAMPLE DUPLICATE RESULTS ARE NOT WITHIN CONTROL LIMITS

<: LESS THAN

>: GREATER THAN

COMPUCHEM

a division of Liberty Analytical Corp.

ENVI/DUPES
LBG/VOGEL

OCT 19 1998

98-251 & 2
Dayton Rd 50
VOCs
Soil

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33864

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
912814	WS00001	10/03/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

CompuChem
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:33864
SDG:25102
CONTRACT:501112

SAMPLE IDENTIFICATIONS: WS00001

The one(1) soil sample listed above was received intact, properly refrigerated, with proper chain of custody(COC) documentation on October 03, 1998. The sample was prepared and analyzed following SW846 method 8260.

VOLATILES:

Analysis holding time requirements were met for this sample. The target analytes trichloroethene and tetrachloroethene were at levels that required this sample to be reprepared and analyzed as a medium level sample.

No Tentatively Identified Compound (TIC) data is provided as requested by the client.

One or more of the surrogates failed low for recovery criteria and this same failing trend was found in the duplicate matrix spikes documenting matrix interference. All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria and did not contain any target analytes above the reporting limits.

The associated Laboratory Control Samples(LCSs) met all QC acceptance limits.

The duplicate matrix spikes generated from this original met all QC precision and accuracy criteria with exceptions. The spike compound trichloroethene failed recovery limits in both matrix spikes and three out of five RPD limits were exceeded.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee,as verified by the following signature.

Roy M. Sutton
Development Chemist
October 16, 1998

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 15 cm of 2,6-diphenylene oxide polymer (Tenax) * 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of silica gel * 0.5 cm of glass wool at each end

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01502 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: 1600 Webster St. Dayton OH 45401 Site Code: SC.001 RFA Number: YGOP9800251 and 252 Chrysler PM: Gary Stanczak	Consultant: Leggette, Brashears & Graham, Inc. Address: 1210 West County Road E Suite 700 Saint Paul MN 55112 Consultant PM: Ken Vogel Phone: 651 490 1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs
48 calendar hrs
72 hrs
28 days
10 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Sump liquid, Rinsewater

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 VOCs	8270 A SVOCs	RCRA Metals 6/7000	TCLP metals 6/7000	8080 PCBs	9020A TOH Aqueous	9020A TOH Solid	Ch.7 Corrosivity	Ch.7 Ignitability	Volatiles pH < 2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
WS00001	10-2-98	11:00	C	S	6	X	X	X	X	X		X	X	X					Solid Waste
WL00001	↓	12:00	G	O	13	X	X	X		X	X		X	X					Sump Liquid
WL00002	↓	12:50	G	O	13	X	X	X		X	X		X	X					Rinse water (Rec'd 2 vons broken & ALL broken up)
T093098			-	O		X													Trip blank
See C-O-C 1503 for additional analyses.																			

Sample received @ 11:51 Temperature (corrected) 3.9 C

Sampler(s)	Bottles Relinquished under Airbill No.			Samples Relinquished under Airbill No. 806 7798 3692			
Cindy Vandenhoist LJB	Relinquished by: Cindy Vandenhoist	Date: 10-2-98	Time: 1630	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # 48 + 74	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? (Yes) No	Relinquished by:	Date:	Time:	Received for Laboratory by: Marcia J. Smith	Date: 10-3-98	Time: 11:45	Custody Seal Intact? (Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Spoke w/ Ken Vogel on 10/5/98 regarding sample ID WL00001 Sample is biphasic. Sample will be split by layer, top phase will be labeled WL00001TP, bottom phase will be labeled WL00001BP. Also told Ken about broken bottles, no VOCs for unsat. 10/5/98

Revision No. 1

... 2 ... on hold & placed in 2nd ... cooler beginning of breakage

CHRYSLER CORPORATION

Chain-of-Custody

01503 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St Dayton OH 45401
Site Code: SC001
RFA Number: YGQP9800251 and 252
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1210 West County Road E
St. Paul MN 55112
Consultant PM: Ken Vogel
Phone: 651 490-1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
28 days
10 Days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Sump Liquid, Rinse water

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	Ch. 7 Reactivity Aqueous	Ch. 7 Reactivity Solid								Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ___	Remarks
WS00001	10-2-98	11:00	C	S			X												Solid Waste
WL00001	↓	12:00	G	O		X													Sump Liquid
WL00002		12:50	G	O		X													Rinse Water

See C-O-C 1502 for additional analyses.

and 806179983707

Sampler(s)
Cindy Vanderhorst LJB

Cooler ID # 48 + 74

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No.

Relinquished by:	Date:	Time:
Cindy Vanderhorst	10-2-98	16:30

Samples Relinquished under Airbill No. 806179983672

Received by:	Date:	Time:	Custody Seal Intact?
			Yes No
			Yes No
Received for Laboratory by: Marlene A. Smith	10/3/98	11:45	Yes No

Temperature (corrected) 3.9 C

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Sample WL 00002 placed on hold & placed in walk in cooler because of breakage

CompuChem a division of Liberty Analytical Corp.

Date Batched 10/12/98

Original

RFA 1527/251

Soil Batch Sheet

Linker M8260 Assigned To _____ Date _____ Manual Counter 1356 / 1580

TAT 10 SOW

	CCN	Client ID	QC Type	Case	SDG	Time	Date Run	Inst. #	Operator	H/T	Weight (g)	Comments
)	913934		SS	33850	A1527			56	2230		4.0	
)	913935		SS								4.0	
)	912213R1	CB0508					2239			10/14	4.0	
)	912212R1	CB0407									4.0	
)	912210R1	CB0209									4.0	used for QC
)	~~913990~~		~~SS~~	~~33864~~	~~25102~~							
)	~~913991~~		~~SS~~									
)	912814R1	WS00001		33864	25102					10/16	4.0	
)	912815R1		SS								4.0	1357/786
))	912816R1		SS								4.0	
1)	912839R1	WL00001TP		33864	25101					10/16	4.0	1355/1021
2)	912812R1		SS								4.0	
3)	912813R1		SS								4.0	
4)												
5)												
6)												
7)												
8)												
9)												
0)												
1)												
2)												
3)	913938	VBLKM2	B1			2103	101398	56	2230		4.0	
4)	913939	VBLKM3	B2								4.0	
5)	913940	VBLKM4	B3								4.0	
6)	913941	VLCS20	B4			2204	101398	56	2230		4.0	
7)	913942	VLCS21	B5				101498				4.0	

elinquished By [signature] Date 101398 Received By [signature] Date 101398

elinquished By [signature] Date 101398 Received By [signature] Date 101398

elinquished By _____ Date _____ Received By _____ Date _____

og Page Updated _____ Regent Manufacturer and lot # _____

10/5/98 See note on COC # 0502A

nt: Chrysler (LBG) | Received on: 10.3.98 & 10/5 | # of COC's 2 | PPS / RFA # 251 & 252 | Page 1 of

er # 338164 | Delivered by: Fed Ex | Lab Instructions: TCL VOA, SV, PCB / TCLP Metals / Corr / Ign / React / TOX

ect: Dayton Thermal | Freight # 806179983707, 806179983692

te # 98-7078 | Subcontract Y / (N)

ount # 501112 | TAT: Verbal _____ Hardcopy 10 day

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
5104	2	T093098	912811	2.60ml	VOA	1356	1	10.2.98	NA	NA
5102	3	WS00001	912814	2.4oz; 3.8oz	Corr. Ign. React. V, SV, Acid Metal, PCB, TOX	1317, 1254, 1316, 1356, 797, 2020, 748, 4003	1, 26, 28, 30, 3, 7, 11, 18, 22		NA	
5103	4	↓	912834	1.8oz	TCLP metals	1856, 1143	13, 14			
5101	5	WL00001	912839	2.60ml; 10AL; 1.500ml PL	Corr. Ign, React. V, SV, Acid Metal, PCB, TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002	24, 26, 28, 1, 5, 9, 16, 20,		XX NA	NA
5104	6	WL00002	913008	6.AL; 1.500ml PL	Corr / Ign / React. SV/RCRA/PCB/TOX/	1317, 1254, 1316, 797, 2019, 748, 4002,	24, 26, 28, 5, 9, 16, 20		NA	NA
↓	7	WL00003	913017	2-60ml; 1.500ml PL; 9AL	Corr / Ign / React V/SV/RCRA/PCB/TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002,	24, 26, 28, 1, 5, 7, 16, 20,		NA	NA/<2

D Ellmore 10/5/98

gged In By: Marlene A. Amijo / Diane Ellmore | Order Entered By: Marlene A. Amijo / Diane Ellmore

anide samples checked for sulfide and chlorine Y / (NA) | Received in good condition Y / (N) ID WL00003 – 4 (AL) bad Blank

dina Blank(s): Counter / Page / CCN's /

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001

Project: RFA251 | Date Sampled: 10/02/98

Lab Code: COMPU | Case No.: 33864 | SAS No.: | SDG No.: 25102

Matrix: (soil/water) SOIL | Lab Sample ID: 912814

Sample wt/vol: 4.0 (g/mL) G | Lab File ID: C3R12814B56.D

Level: (low/med) MED | Date Received: 10/03/98

% Moisture: not dec. 17 | Date Analyzed: 10/14/98

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: 10000(uL) | Soil Aliquot Volume: 9.0 (uL)

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	16000		U
75-01-4	Vinyl Chloride	16000		U
75-00-3	Chloroethane	16000		U
75-09-2	Methylene Chloride	16000	6400	JB
75-35-4	1,1-Dichloroethene	16000		U
75-34-3	1,1-Dichloroethane	16000		U
67-66-3	Chloroform	16000		U
107-06-2	1,2-Dichloroethane	16000		U
71-55-6	1,1,1-Trichloroethane	16000		U
56-23-5	Carbon Tetrachloride	16000		U
75-27-4	Bromodichloromethane	16000		U
10061-01-5	cis-1,3-Dichloropropene	16000		U
79-01-6	Trichloroethene	16000	49000	
124-48-1	Dibromochloromethane	16000		U
79-00-5	1,1,2-Trichloroethane	16000		U
71-43-2	Benzene	16000		U
10061-02-6	trans-1,3-Dichloropropene	16000		U
75-25-2	Bromoform	16000		U
127-18-4	Tetrachloroethene	16000	260000	
79-34-5	1,1,2,2-Tetrachloroethane	16000		U
108-88-3	Toluene	16000		U
108-90-7	Chlorobenzene	16000		U
100-41-4	Ethylbenzene	16000		U
100-42-5	Styrene	16000		U
78-87-5	1,2-Dichloropropane	16000		U
74-87-3	Chloromethane	16000		U
67-64-1	Acetone	16000		U
108-10-1	4-Methyl-2-pentanone	16000		U
78-93-3	2-butanone	16000	2500	JB
540-59-0	1,2-Dichloroethene (total)	16000		U
1330-20-7	Xylene (total)	16000		U
591-78-6	2-Hexanone	16000		U
75-15-0	Carbon Disulfide	16000		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001MS

Project: RFA251 | Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL | Lab Sample ID: 912815

Sample wt/vol: 4.0 (g/mL) G | Lab File ID: C2R12815B56.D

Level: (low/med) MED | Date Received: 10/03/98

% Moisture: not dec. 17 | Date Analyzed: 10/15/98

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: 10000(uL) | Soil Aliquot Volume: 9.0 (uL)

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	16000		U
75-01-4	Vinyl Chloride	16000		U
75-00-3	Chloroethane	16000		U
75-09-2	Methylene Chloride	16000	10000	JB
75-35-4	1,1-Dichloroethene	16000	10000	J
75-34-3	1,1-Dichloroethane	16000		U
67-66-3	Chloroform	16000		U
107-06-2	1,2-Dichloroethane	16000		U
71-55-6	1,1,1-Trichloroethane	16000		U
56-23-5	Carbon Tetrachloride	16000		U
75-27-4	Bromodichloromethane	16000		U
10061-01-5	cis-1,3-Dichloropropene	16000		U
79-01-6	Trichloroethene	16000	53000	
124-48-1	Dibromochloromethane	16000		U
79-00-5	1,1,2-Trichloroethane	16000		U
71-43-2	Benzene	16000	8900	J
10061-02-6	trans-1,3-Dichloropropene	16000		U
75-25-2	Bromoform	16000		U
127-18-4	Tetrachloroethene	16000	260000	
79-34-5	1,1,2,2-Tetrachloroethane	16000		U
108-88-3	Toluene	16000	8900	JB
108-90-7	Chlorobenzene	16000	7300	J
100-41-4	Ethylbenzene	16000		U
100-42-5	Styrene	16000		U
78-87-5	1,2-Dichloropropane	16000		U
74-87-3	Chloromethane	16000		U
67-64-1	Acetone	16000		U
108-10-1	4-Methyl-2-pentanone	16000		U
78-93-3	2-butanone	16000	2300	J
540-59-0	1,2-Dichloroethene (total)	16000		U
1330-20-7	Xylene (total)	16000		U
591-78-6	2-Hexanone	16000		U
75-15-0	Carbon Disulfide	16000		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001MSD

Project: RFA251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912816

Sample wt/vol: 4.0 (g/mL) G Lab File ID: C2R12816B56.D

Level: (low/med) MED Date Received: 10/03/98

% Moisture: not dec. 17 Date Analyzed: 10/15/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(uL) Soil Aliquot Volume: 9.0 (uL)

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	16000		U
75-01-4	Vinyl Chloride	16000		U
75-00-3	Chloroethane	16000		U
75-09-2	Methylene Chloride	16000	9400	JB
75-35-4	1,1-Dichloroethene	16000	6400	J
75-34-3	1,1-Dichloroethane	16000		U
67-66-3	Chloroform	16000		U
107-06-2	1,2-Dichloroethane	16000		U
71-55-6	1,1,1-Trichloroethane	16000		U
56-23-5	Carbon Tetrachloride	16000		U
75-27-4	Bromodichloromethane	16000		U
10061-01-5	cis-1,3-Dichloropropene	16000		U
79-01-6	Trichloroethene	16000	38000	
124-48-1	Dibromochloromethane	16000		U
79-00-5	1,1,2-Trichloroethane	16000		U
71-43-2	Benzene	16000	6500	J
10061-02-6	trans-1,3-Dichloropropene	16000		U
75-25-2	Bromoform	16000		U
127-18-4	Tetrachloroethene	16000	200000	
79-34-5	1,1,2,2-Tetrachloroethane	16000		U
108-88-3	Toluene	16000	7200	JB
108-90-7	Chlorobenzene	16000	6200	J
100-41-4	Ethylbenzene	16000		U
100-42-5	Styrene	16000		U
78-87-5	1,2-Dichloropropane	16000		U
74-87-3	Chloromethane	16000		U
67-64-1	Acetone	16000	5900	J
108-10-1	4-Methyl-2-pentanone	16000		U
78-93-3	2-butanone	16000		U
540-59-0	1,2-Dichloroethene (total)	16000		U
1330-20-7	Xylene (total)	16000		U
591-78-6	2-Hexanone	16000		U
75-15-0	Carbon Disulfide	16000		U

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKM3

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID: CN013939A56.D Lab Sample ID: 913939

Date Analyzed: 10/14/98 Time Analyzed: 1035

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS20	913941	CR081941A56.D	1132
02	WS00001	912814	C3R12814B56.D	1959
03				
04				
05				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKM3

Project: RFA251 Date Sampled: _____

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 913939

Sample wt/vol: 4.0 (g/mL) G Lab File ID: CN013939A56.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/14/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	1200		U
75-01-4	Vinyl Chloride	1200		U
75-00-3	Chloroethane	1200		U
75-09-2	Methylene Chloride	1200	740	J
75-35-4	1,1-Dichloroethene	1200		U
75-34-3	1,1-Dichloroethane	1200		U
67-66-3	Chloroform	1200		U
107-06-2	1,2-Dichloroethane	1200		U
71-55-6	1,1,1-Trichloroethane	1200		U
56-23-5	Carbon Tetrachloride	1200		U
75-27-4	Bromodichloromethane	1200		U
10061-01-5	cis-1,3-Dichloropropene	1200		U
79-01-6	Trichloroethene	1200		U
124-48-1	Dibromochloromethane	1200		U
79-00-5	1,1,2-Trichloroethane	1200		U
71-43-2	Benzene	1200		U
10061-02-6	trans-1,3-Dichloropropene	1200		U
75-25-2	Bromoform	1200		U
127-18-4	Tetrachloroethene	1200		U
79-34-5	1,1,2,2-Tetrachloroethane	1200		U
108-88-3	Toluene	1200		U
108-90-7	Chlorobenzene	1200		U
100-41-4	Ethylbenzene	1200		U
100-42-5	Styrene	1200		U
78-87-5	1,2-Dichloropropane	1200		U
74-87-3	Chloromethane	1200		U
67-64-1	Acetone	1200	380	J
108-10-1	4-Methyl-2-pentanone	1200		U
78-93-3	2-butanone	1200	280	J
540-59-0	1,2-Dichloroethene (total)	1200		U
1330-20-7	Xylene (total)	1200		U
591-78-6	2-Hexanone	1200		U
75-15-0	Carbon Disulfide	1200		U

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKM4

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID: CN013940B56.D Lab Sample ID: 913940

Date Analyzed: 10/15/98 Time Analyzed: 0023

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS20-R	913941R	C2R13941B56.D	0101
02	WS00001MS	912815	C2R12815B56.D	0136
03	WS00001MSD	912816	C2R12816B56.D	0212
04				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKM4

Project: RFA251 Date Sampled: _____

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 913940

Sample wt/vol: 4.0 (g/mL) G Lab File ID: CN013940B56.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/15/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	16000		U
75-01-4	Vinyl Chloride	16000		U
75-00-3	Chloroethane	16000		U
75-09-2	Methylene Chloride	16000	11000	J
75-35-4	1,1-Dichloroethene	16000		U
75-34-3	1,1-Dichloroethane	16000		U
67-66-3	Chloroform	16000		U
107-06-2	1,2-Dichloroethane	16000		U
71-55-6	1,1,1-Trichloroethane	16000		U
56-23-5	Carbon Tetrachloride	16000		U
75-27-4	Bromodichloromethane	16000		U
10061-01-5	cis-1,3-Dichloropropene	16000		U
79-01-6	Trichloroethene	16000		U
124-48-1	Dibromochloromethane	16000		U
79-00-5	1,1,2-Trichloroethane	16000		U
71-43-2	Benzene	16000		U
10061-02-6	trans-1,3-Dichloropropene	16000		U
75-25-2	Bromoform	16000		U
127-18-4	Tetrachloroethene	16000		U
79-34-5	1,1,2,2-Tetrachloroethane	16000		U
108-88-3	Toluene	16000	2400	J
108-90-7	Chlorobenzene	16000		U
100-41-4	Ethylbenzene	16000		U
100-42-5	Styrene	16000		U
78-87-5	1,2-Dichloropropane	16000		U
74-87-3	Chloromethane	16000		U
67-64-1	Acetone	16000		U
108-10-1	4-Methyl-2-pentanone	16000		U
78-93-3	2-butanone	16000		U
540-59-0	1,2-Dichloroethene (total)	16000		U
1330-20-7	Xylene (total)	16000		U
591-78-6	2-Hexanone	16000		U
75-15-0	Carbon Disulfide	16000		U

FORM I VOA

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Level:(low/med) MED

	SAMPLE NO.	SMC1 (DBF)#	SMC2 (TOL)#	SMC3 (BFB)#	OTHER	TOT OUT
01	VBLKM3	107	89	77		0
02	VBLKM4	101	88	81		0
03	VLCS20	108	87	78		0
04	VLCS20-R	94	90	86		0
05	WS00001	91	74*	60*		2
06	WS00001MS	100	84	64*		1
07	WS00001MSD	81	74*	65*		2
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			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(80-120)
SMC2	(TOL)	= Toluene-d8	(81-117)
SMC3	(BFB)	= Bromofluorobenzene	(74-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	7530	0.000	9973	132	59-172
Trichloroethene	7530	49200	53040	51*	62-137
Benzene	7530	0.000	8886	118	66-142
Toluene	7530	0.000	8948	119	59-139
Chlorobenzene	7530	0.000	7298	97	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	7530	6412	85	43*	22	59-172
Trichloroethene	7530	37650	-99*	-401	24	62-137
Benzene	7530	6474	86	31*	21	66-142
Toluene	7530	7157	95	22*	21	59-139
Chlorobenzene	7530	6238	83	16	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

3B

SOIL VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS20

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab Sample ID: 913941 LCS Lot No.: SE115

Lab File ID: CR081941A56.D Date Analyzed: 10/14/98

Purge Volume: 0.0 (mL) Dilution Factor: 1.0

LCS Aliquot: 625.0 (uL)

COMPOUND	AMOUNT ADDED (ug/Kg)	AMOUNT RECOVERED (ug/Kg)	%REC #	QC LIMITS
Benzene	7812	6936	89	66-142
Trichloroethene	7812	6680	86	62-137
Chlorobenzene	7812	6536	84	60-133
Toluene	7812	6445	82	59-139
1,1-Dichloroethene	7812	7504	96	59-172

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 5 total.

COMMENTS:

FORM III

3B

SOIL VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS20-R

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab Sample ID: 913941R LCS Lot No.: SE115

Lab File ID: C2R13941B56.D Date Analyzed: 10/15/98

Purge Volume: 0.0 (mL) Dilution Factor: 1.0

LCS Aliquot: 500.0 (uL)

COMPOUND	AMOUNT ADDED (ug/Kg)	AMOUNT RECOVERED (ug/Kg)	%REC #	QC LIMITS
Benzene	6250	6326	101	66-142
Trichloroethene	6250	6225	100	62-137
Chlorobenzene	6250	6074	97	60-133
Toluene	6250	6731	108	59-139
1,1-Dichloroethene	6250	6276	100	59-172

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 5 total.

COMMENTS:

FORM III

COMPUCHEM
a division of Liberty Analytical Corp.

ENVI/DUPES
LBG/VOGEL

OCT 1 0 1998

98 251 42
Dayton Bldg 50
SVOCs
Soil

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33864

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
912814	WS00001	10/03/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
A division of Liberty Analytical Corporation
501 MADISON AVE..
CARY, NC 27513
(919) 379-4100

SDG NARRATIVE

CASE #33864
SDG #25102
PROTOCOL : SW-846
METHOD : 8270

SAMPLES: WS00001

Attached are pertinent analytical data dealing with the analysis of one (1) soil sample associated with Case # 33864, SDG # 25102. The sample was received intact on October 3, 1998 in properly sealed shipping containers with the corresponding chains-of-custody. The sample was logged into the CompuChem Laboratory Management system and scheduled for the analysis of the semivolatile fraction by Method 8270.

SEMIVOLATILE
The semivolatile fraction was extracted and analyzed within the required holding time. One target analyte, bis(2-ethylhexyl)phthalate was detected with a concentration above the reporting limit in the sample. This analyte was also detected in the associated method blank as denoted by the "B" flag on the sample Form 1.

QC SUMMARY
The surrogates met recovery criteria for the semivolatile sample. The duplicate matrix spikes met accuracy and precision criteria, with one exception. The relative percent difference value for hexachlorocyclopentadiene failed acceptance criteria in the comparison of the duplicate matrix spikes. The associated blanks, initial calibrations and continuing calibrations met Quality Control criteria.

Release of the data contained in the hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Patricia B. Hopkins
Final Technical Reviewer
8 October 1998

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01502 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Payton Thermal Products
Site Location: 1600 Webster St. Dayton OH 45401
Site Code: SC001
RFA Number: YGOP980251 and 252
Chrysler PM: Gary Stanczak

Consultant: Leggette, Brashears & Graham, Inc
Address: 1210 West County Road E Suite 700
Saint Paul MN 55112
Consultant PM: Ken Vogel
Phone: 651 490 1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
72 hours
28 days
10 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Sump liquid, Rinsewater

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 VOCs	8270 A SVOCs	RCRA Metals 6/7000	TCLP Metals 6/7000	8080 PCBs	9020 A TOH Aqueous	9020 A TOH Solid	Ch. 7 Corrosivity	Ch. 7 Ignitability	Lab Use Only: Volatiles pH < 2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
WS00001	10-2-98	11:00	C	S	6	X	X	X	X	X		X	X	X					Solid Waste
WL00001	↓	12:00	G	O	13	X	X	X		X	X		X	X					Sump Liquid
WL00002		12:50	G	O	13	X	X	X		X	X		X	X					Rinse water (*) Recvd 6 vons broken & VALL broken up Recvd. MKT 10/
T093098			-	O		X													Trip blank
See C-O-C 1503 for additional analyses.																			

Fed Ex 806 7998 3701 opened @ 11:57

Sampler(s)
Cindy Vandenhoest LJB

Cooler ID # 48 + 74

Is RFA sampling complete? (Yes) No

Bottles Relinquished under Airbill No.

Samples Relinquished under Airbill No. 806 7983 692

Temperature (corrected) 3.9 c

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Cindy Vandenhoest	10-2-98	16:30				Yes No
						Yes No
			Received for Laboratory by: T Marchand Swift	10-3-98	11:45	(Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Spoke w/ Ken Vogel on 10/5/98 regarding sample ID WL00001 Sample is biphasic. Sample will be split by layer, to phase will be labeled WL00001TP, Bottom phase will be labeled WL00001BP. Also told Ken about broken bottles (no VOCs for unsat) 10/5/98

WL00002 2 phases, only liquid (*) placed in 2nd intact cooler because of breakage

CHRYSLER CORPORATION

Chain-of-Custody

01503 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: 1600 Webster St Dayton OH 45401 Site Code: SC001 RFA Number: YGQP9800251 and 252 Chrysler PM: Gary Stanczuk	Consultant: Leggette, Brashears & Graham, Inc. 10 Address: 1210 West County Road E St. Paul MN 55112 Consultant PM: Ken Vogel Phone: 651 490-1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
28 days
10 Days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify) Sump Liquid, Rinse water

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	Ch. 7 Reactivity Aqueous	Ch. 7 Reactivity Solid								Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ___	Remarks
WS00001	10-2-98	11:00	C	S			X												Solid Waste
WL00001	↓	12:00	G	O		X													Sump Liquid
WL00002		12:50	G	O		X													Rinse Water

See C-O-C 1502 for additional analyses.

Sampler(s)
Cindy Vanderhorst LJB

Cooler ID # 48 + 74

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No.

Samples Relinquished under Airbill No. 806179983672 and 806179983707 Cyanide @ 11:57

Temperature (corrected) 3.9 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Cindy Vanderhorst	10-2-98	16:30				Yes No
						Yes No
			Received for Laboratory by: Marlene A. Smith	10/3/98	11:45	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Sample WL 00001 placed on hold & placed in walk in cooler because of breakage

Page of

COMPUCHEM
a division of Liberty Analytical
501 Madison Avenue
Cary, NC 27513

October 5, 1998

To: Kenny
Mark
Ricky

From: Diane

Re: Case 33864 SDG 25101 & 25104

Sample WL00001 is biphasic. We received 2- 60 ml vials for this sample. The top phase (TP) is CCN 912839 (SDG 25101). This sample matrix is 'XX' (oil). The bottom phase (BP) is CCN 913017 (SDG 25104). This sample matrix is water. Both CCN's appear on the bottles. Please take care in analyzing the correct phase with the correct CCN.

10/5/98 See note on COC # 502A

nt: Chrysler (LBG)
er # 338604
ject: Dayton Thermal
ote # 98-7078
ount # 501112

Received on: 10.3.98 & 10/5/98 # of COC's 2
Delivered by: Fed Ex
Freight # 806179983707, 806179983692
Subcontract Y / N
TAT: Verbal _____ Hardcopy 10 day

PPS / RFA # 251 & 252 Page 1 of 1
Lab Instructions: TCL VOA, SV, PCB / TCLP Metals / Corr / Ign / React / TOX

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
25104	2	T093098	912811	2.60ml	VOA	1356	1	10.2.98	WA	NA
25102	3	WS00001	912814	2.40z; 3.80z	Corr. Ign. React. V.SV, ACRA Metl, PCB, TOX	1317, 1254, 1316, 1356, 797, 2020, 748, 4003	21, 26, 28, 30, 3, 9, 11, 18, 52		30	
25103	4	↓	912834	1.80z	TCLP metals	486, 1143	13, 14			
25101	5	WL00001	912839	2.60ml; 10AL; 1.500ml PL	Corr. Ign, React. V, SV, ACRA Met, PCB, TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002	24, 26, 28, 1, 5, 9, 16, 20		XX	NA
25104	6	WL00002	913008	6.AL; 1.500ml PL	Corr / Ign / React. SV/RCRA/PCB/TOX/	1317, 1254, 1316, 797, 2019, 748, 4002,	24, 26, 28, 5, 9, 16, 20		WA	NA
↓	7	WL00003	913017	2-60ml; 1.500ml; 1.9AL	Corr / Ign / React V/SV/RCRA/PCB/TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002,	24, 26, 28, 1, 5, 7, 16, 20,		WA	NA/42

D Ellmore 10/5/98

ogged In By: Marlene J. Arujo / Diane Ellmore
Order Entered By: Marlene J. Arujo / Diane Ellmore
yanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N ID WL00003 – N (AL) bad bottle
ding Blank(s): Counter / Page / CCN's /
Temperature(s): 3.6

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001

Project: YGQP9800251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012814B68.D

Level: (low/med) LOW Date Received: 10/03/98

% Moisture: 17 decanted: (Y/N) N Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	400		U
111-44-4	bis(2-Chloroethyl)ether	400		U
95-57-8	2-Chlorophenol	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
95-50-1	1,2-Dichlorobenzene	400		U
95-48-7	2-Methylphenol	400		U
39638-32-9	Bis(2-chloroisopropyl)ether	400		U
106-44-5	4-Methylphenol	400		U
621-64-7	N-Nitroso-di-n-propylamine	400		U
67-72-1	Hexachloroethane	400		U
98-95-3	Nitrobenzene	400		U
78-59-1	Isophorone	400		U
88-75-5	2-Nitrophenol	400		U
105-67-9	2,4-Dimethylphenol	400		U
111-91-1	bis(2-Chloroethoxy)methane	400		U
120-83-2	2,4-Dichlorophenol	400		U
120-82-1	1,2,4-Trichlorobenzene	400		U
91-20-3	Naphthalene	400		U
106-47-8	4-Chloroaniline	400		U
87-68-3	Hexachlorobutadiene	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-57-6	2-Methylnaphthalene	400		U
77-47-4	Hexachlorocyclopentadiene	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
95-95-4	2,4,5-Trichlorophenol	1900		U
91-58-7	2-Chloronaphthalene	400		U
88-74-4	2-Nitroaniline	1900		U
131-11-3	Dimethylphthalate	400		U
208-96-8	Acenaphthylene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
99-09-2	3-Nitroaniline	1900		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001

Project: YGQP9800251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012814B68.D

Level: (low/med) LOW Date Received: 10/03/98

% Moisture: 17 decanted: (Y/N) N Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	400		U
51-28-5	2,4-Dinitrophenol	1900		U
100-02-7	4-Nitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	400		U
132-64-9	Dibenzofuran	400		U
84-66-2	Diethylphthalate	400		U
7005-72-3	4-Chlorophenyl-phenylether	400		U
86-73-7	Fluorene	400		U
100-01-6	4-Nitroaniline	1900		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
86-30-6	N-nitrosodiphenylamine (1)	400		U
101-55-3	4-Bromophenyl-phenylether	400		U
118-74-1	Hexachlorobenzene	400		U
87-86-5	Pentachlorophenol	1900		U
85-01-8	Phenanthrene	400		U
120-12-7	Anthracene	400		U
86-74-8	Carbazole	400		U
84-74-2	Di-n-butylphthalate	400		U
206-44-0	Fluoranthene	400	65	J
129-00-0	Pyrene	400	66	J
85-68-7	Butylbenzylphthalate	400		U
91-94-1	3,3'-Dichlorobenzidine	800		U
117-81-7	bis(2-Ethylhexyl)phthalate	400	530	B
56-55-3	Benzo(a)anthracene	400		U
218-01-9	Chrysene	400		U
117-84-0	Di-n-octylphthalate	400	170	J
205-99-2	Benzo(b)fluoranthene	400	45	J
207-08-9	Benzo(k)fluoranthene	400		U
50-32-8	Benzo(a)pyrene	400		U
193-39-5	Indeno(1,2,3-cd)pyrene	400		U
53-70-3	Dibenzo(a,h)anthracene	400		U
191-24-2	Benzo(g,h,i)perylene	400		U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001MS

Project: YGQP9800251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912817

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012817B68.D

Level: (low/med) LOW Date Received: 10/03/98

% Moisture: 17 decanted: (Y/N) N Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	400	3800	
111-44-4	bis(2-Chloroethyl)ether	400	4100	
95-57-8	2-Chlorophenol	400	3700	
541-73-1	1,3-Dichlorobenzene	400	3300	
106-46-7	1,4-Dichlorobenzene	400	3300	
95-50-1	1,2-Dichlorobenzene	400	3500	
95-48-7	2-Methylphenol	400	3700	
39638-32-9	Bis(2-chloroisopropyl)ether	400	3900	
106-44-5	4-Methylphenol	400	3700	
621-64-7	N-Nitroso-di-n-propylamine	400	4300	
67-72-1	Hexachloroethane	400	3500	
98-95-3	Nitrobenzene	400	3900	
78-59-1	Isophorone	400	3600	
88-75-5	2-Nitrophenol	400	3800	
105-67-9	2,4-Dimethylphenol	400	3600	
111-91-1	bis(2-Chloroethoxy)methane	400	4100	
120-83-2	2,4-Dichlorophenol	400	3900	
120-82-1	1,2,4-Trichlorobenzene	400	3500	
91-20-3	Naphthalene	400	3800	
106-47-8	4-Chloroaniline	400	3600	
87-68-3	Hexachlorobutadiene	400	3500	
59-50-7	4-Chloro-3-methylphenol	400	4000	
91-57-6	2-Methylnaphthalene	400	3500	
77-47-4	Hexachlorocyclopentadiene	400	540	
88-06-2	2,4,6-Trichlorophenol	400	4400	
95-95-4	2,4,5-Trichlorophenol	1900	3300	
91-58-7	2-Chloronaphthalene	400	3900	
88-74-4	2-Nitroaniline	1900	3600	
131-11-3	Dimethylphthalate	400	3900	
208-96-8	Acenaphthylene	400	3800	
606-20-2	2,6-Dinitrotoluene	400	3700	
99-09-2	3-Nitroaniline	1900	4200	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001MS

Project: YGQP9800251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912817

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012817B68.D

Level: (low/med) LOW Date Received: 10/03/98

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	400	3900	
51-28-5	2,4-Dinitrophenol	1900	4500	
100-02-7	4-Nitrophenol	1900	3500	
121-14-2	2,4-Dinitrotoluene	400	3800	
132-64-9	Dibenzofuran	400	3500	
84-66-2	Diethylphthalate	400	3500	
7005-72-3	4-Chlorophenyl-phenylether	400	3800	
86-73-7	Fluorene	400	3900	
100-01-6	4-Nitroaniline	1900	3500	
534-52-1	4,6-Dinitro-2-methylphenol	1900	3900	
86-30-6	N-nitrosodiphenylamine (1)	400	3700	
101-55-3	4-Bromophenyl-phenylether	400	4100	
118-74-1	Hexachlorobenzene	400	3800	
87-86-5	Pentachlorophenol	1900	3600	
85-01-8	Phenanthrene	400	5600	
120-12-7	Anthracene	400	3900	
86-74-8	Carbazole	400	3800	
84-74-2	Di-n-butylphthalate	400	3900	
206-44-0	Fluoranthene	400	5400	
129-00-0	Pyrene	400	4100	
85-68-7	Butylbenzylphthalate	400	3400	
91-94-1	3,3'-Dichlorobenzidine	800	2700	
117-81-7	bis(2-Ethylhexyl)phthalate	400	2400	B
56-55-3	Benzo(a)anthracene	400	3900	
218-01-9	Chrysene	400	4200	
117-84-0	Di-n-octylphthalate	400	4400	
205-99-2	Benzo(b)fluoranthene	400	4700	
207-08-9	Benzo(k)fluoranthene	400	4100	
50-32-8	Benzo(a)pyrene	400	4400	
193-39-5	Indeno(1,2,3-cd)pyrene	400	3500	
53-70-3	Dibenzo(a,h)anthracene	400	3600	
191-24-2	Benzo(g,h,i)perylene	400	3700	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001MSD

Project: YGQP9800251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912818

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012818B68.D

Level: (low/med) LOW Date Received: 10/03/98

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	400	4000	
111-44-4	bis(2-Chloroethyl)ether	400	4100	
95-57-8	2-Chlorophenol	400	4000	
541-73-1	1,3-Dichlorobenzene	400	3400	
106-46-7	1,4-Dichlorobenzene	400	3300	
95-50-1	1,2-Dichlorobenzene	400	3500	
95-48-7	2-Methylphenol	400	3800	
39638-32-9	Bis(2-chloroisopropyl)ether	400	4100	
106-44-5	4-Methylphenol	400	3800	
621-64-7	N-Nitroso-di-n-propylamine	400	4400	
67-72-1	Hexachloroethane	400	3500	
98-95-3	Nitrobenzene	400	4200	
78-59-1	Isophorone	400	3900	
88-75-5	2-Nitrophenol	400	4100	
105-67-9	2,4-Dimethylphenol	400	3900	
111-91-1	bis(2-Chloroethoxy)methane	400	4400	
120-83-2	2,4-Dichlorophenol	400	4300	
120-82-1	1,2,4-Trichlorobenzene	400	3700	
91-20-3	Naphthalene	400	4000	
106-47-8	4-Chloroaniline	400	4100	
87-68-3	Hexachlorobutadiene	400	3800	
59-50-7	4-Chloro-3-methylphenol	400	4000	
91-57-6	2-Methylnaphthalene	400	3800	
77-47-4	Hexachlorocyclopentadiene	400	1600	
88-06-2	2,4,6-Trichlorophenol	400	4300	
95-95-4	2,4,5-Trichlorophenol	1900	3700	
91-58-7	2-Chloronaphthalene	400	4400	
88-74-4	2-Nitroaniline	1900	4100	
131-11-3	Dimethylphthalate	400	4000	
208-96-8	Acenaphthylene	400	4200	
606-20-2	2,6-Dinitrotoluene	400	3900	
99-09-2	3-Nitroaniline	1900	4300	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WS00001MSD

Project: YGQP9800251 Date Sampled: 10/02/98

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912818

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012818B68.D

Level: (low/med) LOW Date Received: 10/03/98

% Moisture: 17 decanted: (Y/N) N Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	400	4200	
51-28-5	2,4-Dinitrophenol	1900	4800	
100-02-7	4-Nitrophenol	1900	4300	
121-14-2	2,4-Dinitrotoluene	400	4100	
132-64-9	Dibenzofuran	400	3800	
84-66-2	Diethylphthalate	400	4200	
7005-72-3	4-Chlorophenyl-phenylether	400	4300	
86-73-7	Fluorene	400	4300	
100-01-6	4-Nitroaniline	1900	4100	
534-52-1	4,6-Dinitro-2-methylphenol	1900	4300	
86-30-6	N-nitrosodiphenylamine (1)	400	4000	
101-55-3	4-Bromophenyl-phenylether	400	3900	
118-74-1	Hexachlorobenzene	400	4000	
87-86-5	Pentachlorophenol	1900	4200	
85-01-8	Phenanthrene	400	4100	
120-12-7	Anthracene	400	4000	
86-74-8	Carbazole	400	4200	
84-74-2	Di-n-butylphthalate	400	4200	
206-44-0	Fluoranthene	400	4400	
129-00-0	Pyrene	400	3700	
85-68-7	Butylbenzylphthalate	400	3700	
91-94-1	3,3'-Dichlorobenzidine	800	2900	
117-81-7	bis(2-Ethylhexyl)phthalate	400	2500	B
56-55-3	Benzo(a)anthracene	400	3900	
218-01-9	Chrysene	400	4000	
117-84-0	Di-n-octylphthalate	400	4800	
205-99-2	Benzo(b)fluoranthene	400	4800	
207-08-9	Benzo(k)fluoranthene	400	4300	
50-32-8	Benzo(a)pyrene	400	4500	
193-39-5	Indeno(1,2,3-cd)pyrene	400	3700	
53-70-3	Dibenzo(a,h)anthracene	400	4000	
191-24-2	Benzo(g,h,i)perylene	400	3900	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SLCSQB

Project: YGQP9800251 Date Sampled: _____

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912971

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012971B68.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	330	3500	
111-44-4	bis(2-Chloroethyl)ether	330	3700	
95-57-8	2-Chlorophenol	330	3400	
541-73-1	1,3-Dichlorobenzene	330	3000	
106-46-7	1,4-Dichlorobenzene	330	3100	
95-50-1	1,2-Dichlorobenzene	330	3100	
95-48-7	2-Methylphenol	330	3500	
39638-32-9	Bis(2-chloroisopropyl)ether	330	3500	
106-44-5	4-Methylphenol	330	3400	
621-64-7	N-Nitroso-di-n-propylamine	330	4000	
67-72-1	Hexachloroethane	330	3100	
98-95-3	Nitrobenzene	330	3700	
78-59-1	Isophorone	330	3600	
88-75-5	2-Nitrophenol	330	3600	
105-67-9	2,4-Dimethylphenol	330	3600	
111-91-1	bis(2-Chloroethoxy)methane	330	4000	
120-83-2	2,4-Dichlorophenol	330	3800	
120-82-1	1,2,4-Trichlorobenzene	330	3300	
91-20-3	Naphthalene	330	3600	
106-47-8	4-Chloroaniline	330	3500	
87-68-3	Hexachlorobutadiene	330	3300	
59-50-7	4-Chloro-3-methylphenol	330	3800	
91-57-6	2-Methylnaphthalene	330	3400	
77-47-4	Hexachlorocyclopentadiene	330	3400	
88-06-2	2,4,6-Trichlorophenol	330	3800	
95-95-4	2,4,5-Trichlorophenol	1600	3600	
91-58-7	2-Chloronaphthalene	330	3700	
88-74-4	2-Nitroaniline	1600	3800	
131-11-3	Dimethylphthalate	330	3900	
208-96-8	Acenaphthylene	330	3800	
606-20-2	2,6-Dinitrotoluene	330	3800	
99-09-2	3-Nitroaniline	1600	4300	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SLCSQB

Project: YGQP9800251 Date Sampled: _____

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912971

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012971B68.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	330	3800	
51-28-5	2,4-Dinitrophenol	1600	4700	
100-02-7	4-Nitrophenol	1600	4000	
121-14-2	2,4-Dinitrotoluene	330	3700	
132-64-9	Dibenzofuran	330	3500	
84-66-2	Diethylphthalate	330	3900	
7005-72-3	4-Chlorophenyl-phenylether	330	4000	
86-73-7	Fluorene	330	3900	
100-01-6	4-Nitroaniline	1600	3900	
534-52-1	4,6-Dinitro-2-methylphenol	1600	3900	
86-30-6	N-nitrosodiphenylamine (1)	330	3700	
101-55-3	4-Bromophenyl-phenylether	330	3700	
118-74-1	Hexachlorobenzene	330	3600	
87-86-5	Pentachlorophenol	1600	4300	
85-01-8	Phenanthrene	330	3700	
120-12-7	Anthracene	330	3700	
86-74-8	Carbazole	330	3800	
84-74-2	Di-n-butylphthalate	330	3900	
206-44-0	Fluoranthene	330	3700	
129-00-0	Pyrene	330	3900	
85-68-7	Butylbenzylphthalate	330	3800	
91-94-1	3,3'-Dichlorobenzidine	660	2600	
117-81-7	bis(2-Ethylhexyl)phthalate	330	2500	B
56-55-3	Benzo(a)anthracene	330	3600	
218-01-9	Chrysene	330	3400	
117-84-0	Di-n-octylphthalate	330	4900	
205-99-2	Benzo(b)fluoranthene	330	4700	
207-08-9	Benzo(k)fluoranthene	330	3900	
50-32-8	Benzo(a)pyrene	330	4200	
193-39-5	Indeno(1,2,3-cd)pyrene	330	3700	
53-70-3	Dibenzo(a,h)anthracene	330	4000	
191-24-2	Benzo(g,h,i)perylene	330	3900	

(1) - Cannot be separated from Diphenylamine

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Level:(low/med) LOW

	SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 #	S8 #	TOT OUT
01	SBLKQB	64	69	74	66	63	68			0
02	SLCSQB	85	83	92	84	75	84			0
03	WS00001	64	67	62	64	58	67			0
04	WS00001MS	81	79	72	86	79	74			0
05	WS00001MSD	77	79	73	86	75	78			0
06										
07										
08										
09										
10										
11										
12										
13										
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25										
26										
27										
28										
29										
30										

			QC LIMITS
S1	(NBZ)	= Nitrobenzene-d5	(23-120)
S2	(FBP)	= 2-Fluorobiphenyl	(30-115)
S3	(TPH)	= Terphenyl-d14	(18-137)
S4	(PHL)	= Phenol-d5	(24-113)
S5	(2FP)	= 2-Fluorophenol	(25-121)
S6	(TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	4016	0.000	3830	95	10-150
bis(2-Chloroethyl)ether	4016	0.000	4060	101	10-150
2-Chlorophenol	4016	0.000	3730	93	10-150
1,3-Dichlorobenzene	4016	0.000	3312	82	10-150
1,4-Dichlorobenzene	4016	0.000	3318	83	10-150
1,2-Dichlorobenzene	4016	0.000	3469	86	10-150
2-Methylphenol	4016	0.000	3741	93	10-150
Bis(2-chloroisopropyl)e	4016	0.000	3862	96	10-150
4-Methylphenol	8032	0.000	3667	46	10-150
N-Nitroso-di-n-prop.(1)	4016	0.000	4288	107	10-150
Hexachloroethane	4016	0.000	3524	88	10-150
Nitrobenzene	4016	0.000	3865	96	10-150
Isophorone	4016	0.000	3628	90	10-150
2-Nitrophenol	4016	0.000	3772	94	10-150
2,4-Dimethylphenol	4016	0.000	3650	91	10-150
bis(2-Chloroethoxy)meth	4016	0.000	4091	102	10-150
2,4-Dichlorophenol	4016	0.000	3859	96	10-150
1,2,4-Trichlorobenzene	4016	0.000	3502	87	10-150
Naphthalene	4016	0.000	3817	95	10-150
4-Chloroaniline	4016	0.000	3551	88	10-150
Hexachlorobutadiene	4016	0.000	3539	88	10-150
4-Chloro-3-methylphenol	4016	0.000	3985	99	10-150
2-Methylnaphthalene	4016	0.000	3535	88	10-150
Hexachlorocyclopentadie	4016	0.000	535.1	13	0-150
2,4,6-Trichlorophenol	4016	0.000	4410	110	10-150
2,4,5-Trichlorophenol	4016	0.000	3334	83	10-150
2-Chloronaphthalene	4016	0.000	3885	97	10-150
2-Nitroaniline	4016	0.000	3609	90	10-150
Dimethylphthalate	4016	0.000	3938	98	10-150
Acenaphthylene	4016	0.000	3753	93	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
2,6-Dinitrotoluene	4016	0.000	3664	91	10-150
3-Nitroaniline	4016	0.000	4167	104	10-150
Acenaphthene	4016	0.000	3853	96	10-150
2,4-Dinitrophenol	4016	0.000	4478	112	10-150
4-Nitrophenol	4016	0.000	3487	87	10-150
2,4-Dinitrotoluene	4016	0.000	3843	96	10-150
Dibenzofuran	4016	0.000	3530	88	10-150
Diethylphthalate	4016	0.000	3494	87	10-150
4-Chlorophenyl-phenylet	4016	0.000	3792	94	10-150
Fluorene	4016	0.000	3949	98	10-150
4-Nitroaniline	4016	0.000	3534	88	10-150
4,6-Dinitro-2-methylphe	4016	0.000	3869	96	10-150
N-nitrosodiphenylamine	4016	0.000	3723	93	10-150
4-Bromophenyl-phenyleth	4016	0.000	4077	102	10-150
Hexachlorobenzene	4016	0.000	3764	94	10-150
Pentachlorophenol	4016	0.000	3626	90	10-150
Phenanthrene	4016	0.000	5557	138	10-150
Anthracene	4016	0.000	3882	97	10-150
Carbazole	4016	0.000	3794	94	10-150
Di-n-butylphthalate	4016	0.000	3857	96	10-150
Fluoranthene	4016	64.56	5396	133	10-150
Pyrene	4016	65.66	4138	101	10-150
Butylbenzylphthalate	4016	0.000	3358	84	10-150
3,3'-Dichlorobenzidine	4016	0.000	2673	66	10-150
bis(2-Ethylhexyl)phthal	4016	531.8	2446	48	10-150
Benzo(a)anthracene	4016	0.000	3897	97	10-150
Chrysene	4016	0.000	4151	103	10-150
Di-n-octylphthalate	4016	171.5	4357	104	10-150
Benzo(b)fluoranthene	4016	44.87	4743	117	10-150
Benzo(k)fluoranthene	4016	0.000	4056	101	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzo(a)pyrene	4016	0.000	4362	109	10-150
Indeno(1,2,3-cd)pyrene	4016	0.000	3477	86	10-150
Dibenzo(a,h)anthracene	4016	0.000	3588	89	10-150
Benzo(g,h,i)perylene	4016	0.000	3740	93	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	4016	3996	100	5	40	10-150
bis(2-Chloroethyl)ether	4016	4135	103	2	40	10-150
2-Chlorophenol	4016	4010	100	7	40	10-150
1,3-Dichlorobenzene	4016	3444	86	5	40	10-150
1,4-Dichlorobenzene	4016	3309	82	1	40	10-150
1,2-Dichlorobenzene	4016	3478	87	1	40	10-150
2-Methylphenol	4016	3846	96	3	40	10-150
Bis(2-chloroisopropyl)e	4016	4087	102	6	40	10-150
4-Methylphenol	8032	3834	48	4	40	10-150
N-Nitroso-di-n-prop.(1)	4016	4372	109	2	40	10-150
Hexachloroethane	4016	3473	86	2	40	10-150
Nitrobenzene	4016	4218	105	9	40	10-150
Isophorone	4016	3929	98	8	40	10-150
2-Nitrophenol	4016	4143	103	9	40	10-150
2,4-Dimethylphenol	4016	3935	98	7	40	10-150
bis(2-Chloroethoxy)meth	4016	4405	110	8	40	10-150
2,4-Dichlorophenol	4016	4256	106	10	40	10-150
1,2,4-Trichlorobenzene	4016	3732	93	7	40	10-150
Naphthalene	4016	4005	100	5	40	10-150
4-Chloroaniline	4016	4147	103	16	40	10-150
Hexachlorobutadiene	4016	3766	94	6	40	10-150
4-Chloro-3-methylphenol	4016	4049	101	2	40	10-150
2-Methylnaphthalene	4016	3843	96	9	40	10-150
Hexachlorocyclopentadie	4016	1602	40	102*	40	0-150
2,4,6-Trichlorophenol	4016	4349	108	2	40	10-150
2,4,5-Trichlorophenol	4016	3712	92	10	40	10-150
2-Chloronaphthalene	4016	4368	109	12	40	10-150
2-Nitroaniline	4016	4082	102	12	40	10-150
Dimethylphthalate	4016	4042	101	3	40	10-150
Acenaphthylene	4016	4186	104	11	40	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,6-Dinitrotoluene	4016	3914	97	6	40	10-150
3-Nitroaniline	4016	4275	106	2	40	10-150
Acenaphthene	4016	4196	104	8	40	10-150
2,4-Dinitrophenol	4016	4848	121	8	40	10-150
4-Nitrophenol	4016	4333	108	22	40	10-150
2,4-Dinitrotoluene	4016	4144	103	7	40	10-150
Dibenzofuran	4016	3821	95	8	40	10-150
Diethylphthalate	4016	4158	104	18	40	10-150
4-Chlorophenyl-phenylet	4016	4327	108	14	40	10-150
Fluorene	4016	4324	108	10	40	10-150
4-Nitroaniline	4016	4081	102	15	40	10-150
4,6-Dinitro-2-methylphe	4016	4322	108	12	40	10-150
N-nitrosodiphenylamine	4016	4017	100	7	40	10-150
4-Bromophenyl-phenyleth	4016	3936	98	4	40	10-150
Hexachlorobenzene	4016	3988	99	5	40	10-150
Pentachlorophenol	4016	4236	105	15	40	10-150
Phenanthrene	4016	4095	102	30	40	10-150
Anthracene	4016	4013	100	3	40	10-150
Carbazole	4016	4239	106	12	40	10-150
Di-n-butylphthalate	4016	4171	104	8	40	10-150
Fluoranthene	4016	4369	107	22	40	10-150
Pyrene	4016	3682	90	12	40	10-150
Butylbenzylphthalate	4016	3674	91	8	40	10-150
3,3'-Dichlorobenzidine	4016	2941	73	10	40	10-150
bis(2-Ethylhexyl)phthal	4016	2519	49	2	40	10-150
Benzo(a)anthracene	4016	3892	97	0	40	10-150
Chrysene	4016	4030	100	3	40	10-150
Di-n-octylphthalate	4016	4810	116	11	40	10-150
Benzo(b)fluoranthene	4016	4782	118	1	40	10-150
Benzo(k)fluoranthene	4016	4254	106	5	40	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzo(a)pyrene	4016	4517	112	3	40	10-150
Indeno(1,2,3-cd)pyrene	4016	3685	92	7	40	10-150
Dibenzo(a,h)anthracene	4016	4002	100	12	40	10-150
Benzo(g,h,i)perylene	4016	3933	98	5	40	10-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 64 outside limits
Spike Recovery: 0 out of ** outside limits

COMMENTS: _____

Data File: /chem/5972hp68.i/DF981006B68_288.b/GH012971B68.d
Report Date: 08-Oct-1998 13:00

CompuChem Environmental Corp.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: 912971
Level: LOW
Data Type: MS DATA
SpikeList File: TCL.spk
Client SDG: 25102-33864
Fraction: SV
Client Smp ID: SLCSQB
Operator: 2319
SampleType: METHSPIKE
Quant Type: ISTD
Method File: /chem/5972hp68.i/DF981006B68_288.b/8270_288.m
Misc Info: YGQP9800251

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15	Phenol	3333	3490	104.69	10-150
17	bis(2-Chloroethyl)	3333	3722	111.67	10-150
18	2-Chlorophenol	3333	3397	101.90	10-150
19	1,3-Dichlorobenzen	3333	2981	89.44	10-150
20	1,4-Dichlorobenzen	3333	3056	91.69	10-150
21	1,2-Dichlorobenzen	3333	3138	94.15	10-150
22	2-Methylphenol	3333	3519	105.57	10-150
23	Bis(2-chloroisopro	3333	3499	104.97	10-150
25	4-Methylphenol	6667	3380	50.69	10-150
26	N-Nitroso-di-n-pro	3333	4034	121.01	10-150
27	Hexachloroethane	3333	3093	92.80	10-150
28	Nitrobenzene	3333	3698	110.95	10-150
29	Isophorone	3333	3564	106.93	10-150
31	2,4-Dimethylphenol	3333	3584	107.52	10-150
30	2-Nitrophenol	3333	3607	108.22	10-150
32	bis(2-Chloroethoxy	3333	4008	120.24	10-150
33	2,4-Dichlorophenol	3333	3754	112.64	10-150
34	1,2,4-Trichloroben	3333	3301	99.03	10-150
35	Naphthalene	3333	3644	109.31	10-150
36	4-Chloroaniline	3333	3458	103.73	10-150
37	Hexachlorobutadien	3333	3313	99.38	10-150
38	4-Chloro-3-methylp	3333	3827	114.82	10-150
39	2-Methylnaphthalen	3333	3415	102.44	10-150
41	Hexachlorocyclopen	3333	3427	102.80	0-150
42	2,4,6-Trichlorophe	3333	3794	113.81	10-150
43	2,4,5-Trichlorophe	3333	3638	109.15	10-150
44	2-Chloronaphthalen	3333	3673	110.20	10-150
45	2-Nitroaniline	3333	3760	112.80	10-150
46	Dimethylphthalate	3333	3853	115.59	10-150
48	2,6-Dinitrotoluene	3333	3776	113.29	10-150
47	Acenaphthylene	3333	3801	114.02	10-150
49	3-Nitroaniline	3333	4272	128.18	10-150
50	Acenaphthene	3333	3840	115.20	10-150
51	2,4-Dinitrophenol	3333	4693	140.79	10-150
52	4-Nitrophenol	3333	4031	120.93	10-150
53	2,4-Dinitrotoluene	3333	3739	112.17	10-150

Data File: /chem/5972hp68.i/DF981006B68_288.b/GH012971B68.d
Report Date: 08-Oct-1998 13:00

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
54 Dibenzofuran	3333	3530	105.89	10-150
55 Diethylphthalate	3333	3873	116.19	10-150
56 4-Chlorophenyl-phe	3333	3959	118.77	10-150
57 Fluorene	3333	3924	117.72	10-150
58 4-Nitroaniline	3333	3879	116.36	10-150
59 4,6-Dinitro-2-meth	3333	3931	117.93	10-150
60 N-nitrosodiphenyla	3333	3738	112.13	10-150
62 4-Bromophenyl-phen	3333	3723	111.70	10-150
63 Hexachlorobenzene	3333	3610	108.29	10-150
64 Pentachlorophenol	3333	4311	129.34	10-150
65 Phenanthrene	3333	3659	109.78	10-150
66 Anthracene	3333	3746	112.39	10-150
67 Carbazole	3333	3764	112.92	10-150
68 Di-n-butylphthalat	3333	3903	117.08	10-150
69 Fluoranthene	3333	3724	111.74	10-150
71 Pyrene	3333	3924	117.73	10-150
72 Butylbenzylphthala	3333	3835	115.04	10-150
73 3,3'-Dichlorobenzi	3333	2589	77.68	10-150
74 bis(2-Ethylhexyl)p	3333	2532	75.95	10-150
75 Benzo(a)anthracene	3333	3625	108.75	10-150
76 Chrysene	3333	3391	101.74	10-150
77 Di-n-octylphthalat	3333	4876	146.27	10-150
78 Benzo(b)fluoranthe	3333	4668	140.04	10-150
79 Benzo(k)fluoranthe	3333	3857	115.71	10-150
80 Benzo(a)pyrene	3333	4204	126.13	10-150
81 Indeno(1,2,3-cd)py	3333	3652	109.55	10-150
82 Dibenzo(a,h)anthra	3333	3965	118.94	10-150
83 Benzo(g,h,i)peryle	3333	3913	117.39	10-150

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	3333	2513	75.38	25-121
$ 8 Phenol-d5	3333	2791	83.73	24-113
$ 9 Nitrobenzene-d5	1667	1411	84.68	23-120
$ 10 2-Fluorobiphenyl	1667	1386	83.19	30-115
$ 11 2,4,6-Tribromophen	3333	2805	84.15	19-122
$ 12 Terphenyl-d14	1667	1530	91.80	18-137

4B
SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLKQB

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID: G2J12970B68.D Lab Sample ID: 912970

Instrument ID: 5972HP68 Date Extracted: 10/05/98

Matrix: (soil/water) SOIL Date Analyzed: 10/08/98

Level:(low/med) LOW Time Analyzed: 0411

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSQB	912971	GH012971B68.D	10/06/98
02	WS00001	912814	GH012814B68.D	10/06/98
03	WS00001MS	912817	GH012817B68.D	10/06/98
04	WS00001MSD	912818	GH012818B68.D	10/06/98
05				
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COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKQB

Project: YGQP9800251 Date Sampled: _____

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912970

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G2J12970B68.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	330		U
111-44-4	bis(2-Chloroethyl)ether	330		U
95-57-8	2-Chlorophenol	330		U
541-73-1	1,3-Dichlorobenzene	330		U
106-46-7	1,4-Dichlorobenzene	330		U
95-50-1	1,2-Dichlorobenzene	330		U
95-48-7	2-Methylphenol	330		U
39638-32-9	Bis(2-chloroisopropyl)ether	330		U
106-44-5	4-Methylphenol	330		U
621-64-7	N-Nitroso-di-n-propylamine	330		U
67-72-1	Hexachloroethane	330		U
98-95-3	Nitrobenzene	330		U
78-59-1	Isophorone	330		U
88-75-5	2-Nitrophenol	330		U
105-67-9	2,4-Dimethylphenol	330		U
111-91-1	bis(2-Chloroethoxy)methane	330		U
120-83-2	2,4-Dichlorophenol	330		U
120-82-1	1,2,4-Trichlorobenzene	330		U
91-20-3	Naphthalene	330		U
106-47-8	4-Chloroaniline	330		U
87-68-3	Hexachlorobutadiene	330		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-57-6	2-Methylnaphthalene	330		U
77-47-4	Hexachlorocyclopentadiene	330		U
88-06-2	2,4,6-Trichlorophenol	330		U
95-95-4	2,4,5-Trichlorophenol	1600		U
91-58-7	2-Chloronaphthalene	330		U
88-74-4	2-Nitroaniline	1600		U
131-11-3	Dimethylphthalate	330		U
208-96-8	Acenaphthylene	330		U
606-20-2	2,6-Dinitrotoluene	330		U
99-09-2	3-Nitroaniline	1600		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKQB

Project: YGQP9800251 Date Sampled: _____

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912970

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G2J12970B68.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/05/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	330		U
51-28-5	2,4-Dinitrophenol	1600		U
100-02-7	4-Nitrophenol	1600		U
121-14-2	2,4-Dinitrotoluene	330		U
132-64-9	Dibenzofuran	330		U
84-66-2	Diethylphthalate	330		U
7005-72-3	4-Chlorophenyl-phenylether	330		U
86-73-7	Fluorene	330		U
100-01-6	4-Nitroaniline	1600		U
534-52-1	4,6-Dinitro-2-methylphenol	1600		U
86-30-6	N-nitrosodiphenylamine (1)	330		U
101-55-3	4-Bromophenyl-phenylether	330		U
118-74-1	Hexachlorobenzene	330		U
87-86-5	Pentachlorophenol	1600		U
85-01-8	Phenanthrene	330		U
120-12-7	Anthracene	330		U
86-74-8	Carbazole	330		U
84-74-2	Di-n-butylphthalate	330		U
206-44-0	Fluoranthene	330		U
129-00-0	Pyrene	330		U
85-68-7	Butylbenzylphthalate	330		U
91-94-1	3,3'-Dichlorobenzidine	660		U
117-81-7	bis(2-Ethylhexyl)phthalate	330	50	J
56-55-3	Benzo(a)anthracene	330		U
218-01-9	Chrysene	330		U
117-84-0	Di-n-octylphthalate	330		U
205-99-2	Benzo(b)fluoranthene	330		U
207-08-9	Benzo(k)fluoranthene	330		U
50-32-8	Benzo(a)pyrene	330		U
193-39-5	Indeno(1,2,3-cd)pyrene	330		U
53-70-3	Dibenzo(a,h)anthracene	330		U
191-24-2	Benzo(g,h,i)perylene	330		U

(1) - Cannot be separated from Diphenylamine

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID (Standard): HH981006B68.D Date Analyzed: 10/06/98

Instrument ID: 5972HP68 Time Analyzed: 1630

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	44439	6.85	170525	8.86	93494	11.80
	UPPER LIMIT	88878	7.35	341050	9.36	186988	12.30
	LOWER LIMIT	22220	6.35	85262	8.36	46747	11.30
	SAMPLE NO.						
01	SLCSQB	52597	6.83	202191	8.86	112317	11.78
02	WS00001	63703	6.84	235407	8.85	133533	11.79
03	WS00001MS	49556	6.84	201422	8.87	115120	11.79
04	WS00001MSD	47123	6.85	187266	8.86	106783	11.80
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID (Standard): HH981006B68.D Date Analyzed: 10/06/98

Instrument ID: 5972HP68 Time Analyzed: 1630

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	144081	14.32	89801	18.41	103574	21.23
	UPPER LIMIT	288162	14.82	179602	18.91	207148	21.73
	LOWER LIMIT	72040	13.82	44900	17.91	51787	20.73
	SAMPLE NO.						
01	SLCSQB	178224	14.32	104137	18.40	90691	21.21
02	WS00001	214814	14.32	137409	18.41	127850	21.23
03	WS00001MS	171905	14.32	131627	18.43	121100	21.23
04	WS00001MSD	172370	14.33	129657	18.42	124105	21.23
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID (Standard): HG981007B68.D Date Analyzed: 10/07/98

Instrument ID: 5972HP68 Time Analyzed: 1754

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	83180	6.80	328923	8.83	172144	11.75
	UPPER LIMIT	166360	7.30	657846	9.33	344288	12.25
	LOWER LIMIT	41590	6.30	164462	8.33	86072	11.25
	SAMPLE NO.						
01	SBLKQB	63716	6.81	248062	8.82	134801	11.75
02							
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18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab File ID (Standard): HG981007B68.D Date Analyzed: 10/07/98

Instrument ID: 5972HP68 Time Analyzed: 1754

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	214187	14.29	123477	18.38	123075	21.15
	UPPER LIMIT	428374	14.79	246954	18.88	246150	21.65
	LOWER LIMIT	107094	13.79	61738	17.88	61538	20.65
	SAMPLE NO.						
01	SBLKQB	195614	14.28	98402	18.37	82375	21.18
02							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

COMPUCHEM
a division of Liberty Analytical Corp.

ENVI/DUPES
LBG/VOGEL

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33864

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

ENVI/DUPES
LBG/VOGEL

OCT 19 1998

98 25172
Dayton Bldg 50
Pesticides
Soil

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33864

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
912814	WS00001	10/03/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C 27513 ■ Tel. 919-379-4100 ■ Fax: 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 33864
SDG: 25102

SAMPLE IDENTIFICATION: WS00001

The one (1) soil sample listed above was received intact, properly refrigerated, with proper chain-of-custody (COC) documentation on October 3, 1998. The sample was prepared and analyzed following SW846 Method 8082 protocol for the PCB fraction.

PCBs

Extraction and analysis holding time requirements were met for this sample. The PCB target analyte Aroclor 1254 was confirmed by dual column analysis at a concentration above the reporting limit in WS00001.

All of the surrogates met recovery and retention time criteria in the analyses of this sample and its associated duplicate matrix spikes. The associated method blank met all quality control criteria. No PCBs were confirmed in the method blank.

WS00001 was used as the original to prepare the duplicate matrix spikes. The associated duplicate matrix spikes met all advisory accuracy criteria. The Relative Percent Difference (RPD) of Aroclor 1254 was flagged as an outlier in the comparison of the duplicate matrix spikes. The associated Laboratory Control Sample (LCS) met all quality control criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions listed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the signature below.

Stephanie W. Winfield 10-14-98
Stephanie W. Winfield
Technical Reviewer
October 14, 1998

CHRYSLER CORPORATION

Chain-of-Custody

01502 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Payton Thermal Products Site Location: 1000 Webster St. Dayton OH 45401 Site Code: SC001 RFA Number: YGOP980251 and 252 Chrysler PM: Gary Stanczak	Consultant: Leggette, Brashears & Graham, Inc Address: 1210 West County Road E Suite 700 Saint Paul MN 55112 Consultant PM: Ken Vogel Phone: 651 490 1405 Fax: 651 490-1006

Turn-around Time Request: 24 calendar hrs; 48 calendar hrs; 5 days; 28 days; 10 days

Data Package Deliverables: (circle) Chrysler Level 1; Chrysler Level 2; Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes: S - Soil; GW - Groundwater; Sed. - Sediment; O - Other (specify) Sump liquid, Rinsewater; SW - Surface Water; A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 VOCs	8270A SVOCs	RCRA Metals 6/7000	TCLP Metals 6/7000	8080 PCBs	9020A TOH Aqueous	9020A TOH Solid	Ch.7 Corrosivity	Ch.7 Ignitability	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
WS00001	10-2-98	11:00	C	S	6	X	X	X	X	X		X	X	X					Solid Waste
WL00001	↓	12:00	G	O	13	X	X	X		X	X		X	X					Sump Liquid
WL00002	↓	12:50	G	O	13	X	X	X		X	X		X	X					Rinse water (Recvd 2 vons broken & [illegible] broken in receipt. [illegible])
T093098			-	O		X													Trip blank
See C.O.C 1503 for additional analyses.																			

Fed Ex 8061998 3701 Opened @ 11:51 Temperature (corrected) 3.9 C

Sampler(s)	Bottles Reliquished under Airbill No.			Samples Relinquished under Airbill No. 8061998 3692			
Cindy Vanderhorst LJB	Relinquished by: Cindy Vanderhorst	Date: 10-2-98	Time: 16:30	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # 48 + 24	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: T Marchand Smith	Date: 10-3-98	Time: 11:45	Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Spoke w/ Ken Vogel on 10/5/98 regarding sample ID WL00001. Sample is biphasic. Sample will be split by layer, top phase will be labeled WL00001TP, bottom phase will be labeled WL00001BP. Also told Ken about broken bottles, no VOCs for unsat) 10/5/98

[illegible] on hold & placed on [illegible] rack in cooler because of breakage

Revision No 1

nt : Chrysler (LBG)
er # 33864
ject : Dayton Thermal
ote # 98-7078
ount # 501112

Received on : 10.3.98 & 10/5/98 JE 10/5 See note on COC # 0502A
# of COC's 2
Delivered by : Fed Ex
Freight # 806179983707, 806179983692
Subcontract Y / (N)
TAT : Verbal _____ Hardcopy 10 day

PPS / (RFA) # 251 & 252 Page 1 of 1
Lab Instructions : TCL VOA, SV, PCB / TCLP Metals / Corr / Ign / React / TOX

3

SDG 10/5	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
25104	2	T093098	912811	2.60ml	VOA	1356	1	10.2.98	WA	NA
25102	3	WS00001	912814	2.4oz; 3.8oz	Corr. Ign. React. V, SV, RCRA metal, PCB, TOX	1317, 1254, 1316, 1357, 798, 2020, 749, 4003	24, 26, 28, 30, 3, 7, 11, 18, 22		SO	
25103	4	↓	912834	1.8oz	TCLP metals	48~~6~~7, 1143	13, 14			
25101	5	WL00001 ~~BP~~ DE 10/5 TP	912839	2.60ml; 10AL; 1.500ml PL	Corr. Ign. React. V, SV, RCRA Met. PCB, TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002	24, 26, 28, 1, 5, 9, 16, 20		XX ~~WA~~ DE 10/5/98	NA
25104	6	WL00002	913008	6.AL; 1.500ml PL	Corr / Ign / React. SV/RCRA/PCB/TOX/	1317, 1254, 1316, 797, 2019, 748, 4002,	24, 26, 28, 5, 9, 16, 20		WA	NA
↓	7	WL00001 ~~R~~ DE 10/5 1BP	913017	2-60ml; 1.500ml PL; 9AL	Corr / Ign / React V/SV/RCRA/PCB/TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002,	24, 26, 28, 1, 5, 7, 16, 20		WA	NA/<2

DEllmore 10/5/98

ogged In By : Marlene J. Smith / Diane Ellmore
Order Entered By : Marlene J. Smith / Diane Ellmore
yanide samples checked for sulfide and chlorine Y (NA)
Received in good condition Y / (N) ID WL00002 - 4-(AL) [illegible]
ding Blank(s) : Counter / Page / CCN's / Temperature(s) 3.9 C

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required *Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for* soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WS00001

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 10/03/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:10/05/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2------	Aroclor-1016	39	U
11104-28-2------	Aroclor-1221	51	U
11141-16-5------	Aroclor-1232	39	U
53469-21-9------	Aroclor-1242	27	U
12672-29-6------	Aroclor-1248	27	U
11097-69-1------	Aroclor-1254	61	
11096-82-5------	Aroclor-1260	39	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKPW

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix: (soil/water) SOIL Lab Sample ID: 912960

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:10/05/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2------	Aroclor-1016	32	U
11104-28-2------	Aroclor-1221	42	U
11141-16-5------	Aroclor-1232	32	U
53469-21-9------	Aroclor-1242	22	U
12672-29-6------	Aroclor-1248	22	U
11097-69-1------	Aroclor-1254	22	U
11096-82-5------	Aroclor-1260	32	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKPW

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Lab Sample ID: 912960 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 10/05/98

Date Analyzed (1): 10/13/98 Date Analyzed (2): 10/13/98

Time Analyzed (1): 0017 Time Analyzed (2): 0017

Instrument ID (1): HP17 Instrument ID (2): HP16

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(m

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCSPW	912961	10/13/98	10/13/98
02	WS00001MS	912824	10/13/98	10/13/98
03	WS00001MSD	912825	10/13/98	10/13/98
04	WS00001	912814	10/13/98	10/13/98
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

FORM 2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (m

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKPW	94	107	71	80			0
02	PLCSPW	93	96	71	80			0
03	WS00001MS	81	95	76	39			0
04	WS00001MSD	82	57	74	81			0
05	WS00001	75	80	73	77			0
06								
07								
08								
09								
10								
11								
12								
13								
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17								
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19								
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22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

Matrix Spike - Sample No.: WS00001

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	400	61	400	85	50-150

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	400	300	60	34*	20	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33864 SAS No.: SDG No.: 25102

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	330	260	79	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

ASSIGNED TO [illegible]

EMPLOYEE ID # 2343 / 2245

EXTRACTION WORKSHEET
PCB ONLY IN S/S/S BY METHOD 3550A/3665

DATE EXTRACTED/POSTED 10/5/98

12

CASE # 33864.25102

-735 PCB's ONLY

QUEUE # 64

	SAMPLE NUMBER	CLIENT ID #	QC SAMPLE TYPE	QC SAMPLE ORIG #	SAMPLE WEIGHT (g)	BOTTLE #	ACID WASH DATE/INITIALS	FINAL VOLUME (ml)	COMMENTS
1	912824		SS		30.0	3 of 5	10-5-98 BW	5.0	AUTO COUNTER 496 / 1840 ORIGINAL
2	912825		SS		30.0	3 of 5	10-5-98 BW	↓	ENTERED FOR SS's: 1
3	912814	WS00001		17	30.0	3 of 5	10-5-98 BW	↓	INITIALS / DATE
4						of			
5						of			RFA 251
6						of			
7						of			
8						of			
9						of			
10						of			
11						of			
12						of			ACID WASH 5 ML FINAL EXTRACT
13						of			VOLUME.
14						of			
15						of			
16						of			
17						of			
18						of			
19						of			
20						of			MG 10/6/98
21	912960	PBLKPW	BLK		30.0		10-5-98 BW	5.0	
22	912961	PLCSPW	LCS		30.0		10-5-98 BW	↓	

AADF

	#	AMOUNT	LOT #	SURROGATE AND SPIKE ADDED BY:
SURROGATE	426	2.0 ml	47846	CAH 10-5-98
SPIKE	4551	1.0 ml	47299	INITIALS / DATE

MANUAL COUNTER ~~451~~ 1442/584

FINAL VOLUME VERIFIED: BW

SUPERVISOR REVIEWED: [signature]

Witness BW / 10-5-98
Initials Date

Analysts initials. Extract CAH KD BW N2 BW Bottle up BW

Manufacturers and lot numbers of reagents/solvents used MeCl2 - BS234 Acetone - BR334 Hexane - BS922
Sodium Sulfate - M19634

COMPUCHEM
a division of Liberty Analytical Corp.

OCT 19 1998

ENVI/DUPES
LBG/VOGEL

98-25 1 & 2
Dayton Bldg 50
Inorganics
Soil

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33864

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

16/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
912814	WS00001	10/03/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel. 919-379-4100 ■ Fax: 919-379-4050

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864 SAS No.: _____ SDG No.:25102_

SOW No.: SW846__

EPA Sample No.	Lab Sample ID
_WS00001_____	_912814_____
_WS00001D_____	_912823_____
_WS00001M_____	_912821_____
_WS00001S_____	_912820_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Carol J. Yandell Name: Carol Yandell

Date: 10/12/98 Title: Inorganic Manager

CompuChem
501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE
CASE # 33864 SDG # 25102
PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of one (1) soil sample was received into the laboratory management system (LIMS) on October 3, 1998 intact and in good condition with Chain of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The sample was analyzed for the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) using analytical methods delineated in SW-846 (3rd edition) or EPA accepted CLP related modifications of those methods.

SAMPLE IDs:

The following customer ID is associated with this SDG:

WS00001

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike duplicate, 912821 (WS00001M) was found to be inside control limits for the requested analytes. The sample matrix spike, 912820 (WS00001S) was found to be outside control limits for arsenic and chromium. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

SW-846 control limits for matrix spike recoveries are set at 80% to 120% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, 912823 (WS00001D) inside control limits for the requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A four-fold serial dilution of sample, 912814 (WS00001L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for all requested analytes.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

This SDG package was processed using the Ward Scientific software. This software package has a seven character limitation on the Forms 13 and 14 -- any sample ID's which exceed seven characters are truncated from left to right on these forms.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Carol J. Yandell
Senior Chemist
October 12, 1998

Note: This report is paginated for reference and accountability.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

CompuChem Environmental Corportation

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). This flag also indicates the analyte was not detected, but the result is greater than or equal to the IDL.

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. when the serial dilution (a five fold dilution for CLP and a four fold dilution for SW-846 method 6010A) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. when the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method of Standard Additions (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CompuChem Receiving Log

See note on COC #5502A

Client: Chrysler (LBG)	Received on: 10.3.98 & 10/5/98 JE 10/5 # of COC's 2	PPS / RFA # 251 & 252 Page 1 of 1
Order # 338604	Delivered by: Tech. 84	Lab Instructions: TCL VOA; SV, PCB /
Project: Dayton Thermal	Freight # 806179983707, 806179983692	TCLP Metals / Corr / Ign / React / TOX
Quote # 98-7078	Subcontract Y / N	
Account # 501112	TAT: Verbal ____ Hardcopy 10-day	

	SDG 10/5 JE	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
1	25104	2	T093098	912811	2.60ml	VOA	1356	1	10.2.98	WA	NA
2	25102	3	WS00001	912814	2.4oz; 3.8oz	Corr. Ign. Reac. V, SV, RCRA metal, PCB, TOX	1317, 1254, 1316, 1357, 798, 2020, 749, 4003	24, 26, 28, 30, 3, 7, 11, 18, 22		SO	
3	25103	4	↓	912834	1.8oz	TCLP metals	48~~6~~7, 1143	13, 14			
4	25101	5	WL00001 ~~BP~~ DE 10/5 TP	912839	2.60ml; 10AL; 1.500ml PL	Corr. Ign, React. V, SV, RCRA Met. PCB, TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002	24, 26, 28, 1, 5, 9, 16, 20		XX ~~WA~~ 10/5/98 JE	NA / <2
5	25104	6	WL00002	913008	6.AL; 1.500ml PL	Corr / Ign / React. SV/RCRA/PCB/TOX/	1317, 1254, 1316, 797, 2019, 748, 4002,	24, 26, 28, 5, 9, 16, 20		WA	NA / <2
6	↓	7	WL0000~~1R~~ DE 10/5 1BP	913017	2-60ml 1-500ml PL 9AL	Corr / Ign / React V/SV/RCRA/PCB/TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002,	24, 26, 28, 1, 5, 7, 16, 20,		WA	NA / <2
7											
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D Ellmore 10/5/98

Logged In By: Marlene J. Smith / Diane Ellmore

Order Entered By: Marlene J. Smith / Diane Ellmore

Cyanide samples checked for sulfide and chlorine Y / NA

Received in good condition Y / N ID WL00002 — 4-(AL) rec'd broken. Both VOA vials rec'd broken.

Holding Blank(s): Counter / Page ____ / ____ CCN's ____

CHRYSLER CORPORATION

Chain-of-Custody

01502 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St. Dayton OH 45401
Site Code: SC001
RFA Number: YGQP9800251 and 252
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1210 West County Road E Suite 700
Saint Paul MN 55112
Consultant PM: Ken Vogel
Phone: 651 490 1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs
48 calendar hrs.
~~7 calendar~~ TCLP metals
28 days
10 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Sump liquid, Rinsewater

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 VOCs	8270A SVOCs	RCRA Metals 6/7000	TCLP Metals 6/7000	8080 PCBs	9020A TOH Aqueous	9020A TOH Solid	Ch.7 Corrosivity	Ch.7 Ignitability	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
WS00001	10-2-98	11:00	C	S	6	X	X	X	X	X		X	X	X					Solid Waste
WL00001	↓	12:00	G	O	13	X	X	X		X	X		X	X					Sump Liquid
WL00002		12:50	G	O	13	X	X	X		X	X		X	X					Rinse water (Rec'd @ vom broken & [illegible] broken)
T093098			—	O		X													Trip blank
See C-O-C 1503 for additional analyses.																			

Sampler(s): Cindy Vanderhorst LJB

Cooler ID # 48 + 74

Is RFA sampling complete? (Yes) No

Bottles Relinquished under Airbill No.

Relinquished by:	Date:	Time:
Cindy Vanderhorst	10-2-98	1630

Samples Relinquished under Airbill No. 806 7798 3692 and 806 7798 3701 opened @ 11:51

Received by:	Date:	Time:	Custody Seal Intact?
			Yes No
			Yes No
Received for Laboratory by: Marlene J. Smith	10-3-98	11:45	(Yes) No

Temperature (corrected) 3.9 c

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Spoke w/ Ken Vogel on 10/5/98 regarding sample ID WL00001. Sample is biphasic. Sample will be split by layer, & phase will be labeled WL00001TP, bottom phase will be labeled WL00001BP. Also told Ken about broken bottle (no VOCs for unsate) 10/5/98

Sample WL00002 placed on hold @ placed in walk in cooler because of breakage. [illegible] all other samples placed @ 12:15

Revision No. 1
Created: September 23, 1997

Page ____ of ____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS00001

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Matrix (soil/water): SOIL_ Lab Sample ID: 912814

Level (low/med): LOW__ Date Received: 10/03/98

% Solids: _83.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	6.8		N	P
7440-39-3	Barium___	70.7			P
7440-43-9	Cadmium__	1.4			P
7440-47-3	Chromium_	23.7		N	P
7439-92-1	Lead____	43.3			P
7439-97-6	Mercury__	0.06	B		CV
7782-49-2	Selenium_	0.62	U		P
7440-22-4	Silver___	0.07	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.17g__Dry:5.36g_____

Duplicate_(WS00001D)_____

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	3.7	U	-4.7	B	3.7	U	3.7	U	0.37	U	P
Barium	0.6	U	0.6	U	0.6	U	0.6	U	0.06	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.03	U	P
Chromium	0.7	U	0.7	U	0.7	U	0.7	U	0.07	U	P
Lead	1.6	U	1.6	U	1.6	U	1.6	U	0.16	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	CV
Selenium	5.2	U	5.2	U	5.2	U	5.2	U	0.52	U	P
Silver	0.6	U	0.6	U	0.6	U	0.6	U	0.06	U	P

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS00001M

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _83.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	11.4994		6.7551		4.80	98.8		P
Barium	75-125	307.4430		70.6963		240.10	98.6		P
Cadmium	75-125	7.0648		1.3529		6.00	95.2		P
Chromium	75-125	52.7731		23.7335		24.01	120.9		P
Lead		51.2125		43.3373		2.40	328.1		P
Mercury	75-125	0.7239		0.0624	B	0.60	110.2		CV
Selenium	75-125	1.4382		0.6242	U	1.20	119.8		P
Silver	75-125	5.7563		0.0720	U	6.00	95.9		P

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS00001S

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _83.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	13.5534		6.7551		4.80	141.6	N	P
Barium	75-125	307.4430		70.6963		240.10	98.6		P
Cadmium	75-125	7.2881		1.3529		6.00	98.9		P
Chromium	75-125	54.1537		23.7335		24.01	126.7	N	P
Lead		33.5894		43.3373		2.40	-406.2		P
Mercury	75-125	0.7773		0.0624	B	0.60	119.1		CV
Selenium	75-125	1.1826		0.6242	U	1.20	98.5		P
Silver	75-125	5.6831		0.0720	U	6.00	94.7		P

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS00001A

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Arsenic		151.70		56.27		110.0	86.8		P
Barium									NR
Cadmium									NR
Chromium		580.50		197.70		400.0	95.7		P
Lead									NR
Mercury									NR
Selenium									NR
Silver									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

WS00001D

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _83.3 % Solids for Duplicate: __83.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		6.7551		8.1633		18.9		P
Barium		70.6963		65.1501		8.2		P
Cadmium	0.6002	1.3529		1.6495		19.8		P
Chromium		23.7335		25.2101		6.0		P
Lead		43.3373		36.4466		17.3		P
Mercury	0.1200	0.0624	B	0.1206		63.6		CV
Selenium		0.6242	U	0.6242	U			P
Silver		0.0720	U	0.0720	U			P

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic				163.0	138.7		102.0	225.0	85.1
Barium				195.0	170.5		128.0	261.0	87.4
Cadmium				114.0	96.1		84.9	142.0	84.3
Chromium				175.0	146.3		121.0	229.0	83.6
Lead				66.0	60.9		44.7	87.3	92.3
Mercury									
Selenium				123.0	105.4		91.4	155.0	85.7
Silver				57.2	49.9		40.8	73.5	87.2

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25102_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic									
Barium									
Cadmium									
Chromium									
Lead									
Mercury				1.7	1.8		1.0	2.6	105.9
Selenium									
Silver									

COMPUCHEM
a division of Liberty Analytical Corp.

Ken Vogel/LBG

RFA 98-251 + 252
Bldg 50 sump
inorganics TCLP
soil

12/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33864

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson
CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

12/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
912834	WS00001	10/03/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864 SAS No.: _____ SDG No.:25103_

SOW No.: SW846__

EPA Sample No.	Lab Sample ID
_LEACH_BLK____	_913007_____
_WS00001_____	_912834_____
_WS00001D_____	_912838_____
_WS00001M_____	_912836_____
_WS00001S_____	_912835_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:
____THE_FOLLOWING_ANALYTES_HAVE_BEEN_FLAGGED_WITH_AN_"E"_TO_INDICATE_____
____SERIAL_DILUTION_RESULTS_WHICH_WERE_OUTSIDE_CONTROL_LIMITS:_____
____LEAD_____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Thomas R. Cole for Name: Carol J. Gardell

Date: October 9, 1998 Title: Laboratory Manager

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE
CASE # 33864 SDG # 25103
PROTOCOL #SW-846

? soil

The indicated Sample Delivery Group (SDG) consisting of one (1) water sample was received into the laboratory management system (LIMS) on October 3, 1998 intact and in good condition with Chain of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The sample was analyzed for the eight TCLP metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

WS00001

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = 912835 (ID = WS00001S) and sample matrix spike duplicate, CCN = 912836 (ID= WS00001M) were found to be inside SW-846 control limits for the requested analytes.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

The sample matrix duplicate, CCN = 912838 (ID = WS00001D) was outside SW-846 control for selenium. The reported concentration for this analyte is flagged with a "*" on all associated Form 1 and on Form 6.

A "*" indicates a non-homogeneous sample matrix in regard to the flagged analyte. This is normally the consequence of a relatively coarse texture or of a mixed-matrix in sediment samples.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and

+/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 912834 (ID = WS00001L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were outside SW-846 control limits for lead, which is flagged with an "E" on all associated Form 1, the Cover Page and Form 9.

An "E" indicates that a chemical or physical interference effect was encountered during the analysis of the flagged analyte. As a result of this interference, all values for the analyte in the same matrix must be considered to be estimated quantities.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

This SDG package was processed using the Ward Scientific software. This software package has a seven character limitation on the Forms 13 and 14 -- any sample ID's which exceed seven characters are truncated from left to right on these forms.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Thomas R. Cole
Chemist II
October 9, 1998

Note: This report is paginated for reference and accountability.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

CompuChem Environmental Corportation

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). This flag also indicates the analyte was not detected, but the result is greater than or equal to the IDL.

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. when the serial dilution (a five fold dilution for CLP and a four fold dilution for SW-846 method 6010A) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. when the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indates the sample spike recovery is outside of control limits:

*: This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method of Standard Additions (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CHRYSLER CORPORATION

Chain-of-Custody

01502 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: 1600 Webster St. Dayton OH 45401 Site Code: SC001 RFA Number: YGQP980251 and 252 Chrysler PM: Gary Stanczuk	Consultant: Leggette, Brashears & Graham, Inc Address: 1210 West County Road E Suite 700 Saint Paul MN 55112 Consultant PM: Ken Vogel Phone: 651 490 1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs
48 calendar hrs
72 hrs
28 days
10 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Sump liquid, Rinsewater

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 VOCs	8270A SVOCs	RCRA Metals 6/7000	TCLP Metals 6/7000	8080 PCBs	9020A TOH Aqueous	9020A TOH Solid	Ch.7 Corrosivity	Ch.7 Ignitability	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
WS00001	10-2-98	11:00	C	S	6	X	X	X	X	X		X	X	X					Solid Waste
WL00001	↓	12:00	G	O	13	X	X	X		X	X		X	X					Sump Liquid
WL00002	↓	12:50	G	O	13	X	X	X		X	X		X	X					Rinse water (*) Recvd 2 vons broken & 1 AL broken in receipt. MJ 10/
T093098			-	O		X													Trip blank
See C-O-C 1503 for additional analyses.																			

Sampler(s): Cindy Vandenhorst LJB

Bottles Reliquished under Airbill No.

Samples Relinquished under Airbill No. 806 7998 3692

Fed 806 7998 3707 opened @ 11:51

Temperature (corrected) 3.9 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Cindy Vandenhorst	10-2-98	1630				Yes No
						Yes No
			Received for Laboratory by: Marlene J. Smith	10-3-98	11:45	Yes No

Cooler ID # 48 + 74

Is RFA sampling complete? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

CT

Spoke w/ Ken Vogel on 10/5/98 regarding sample ID WL00001. Sample is biphasic. Sample will be split by layer, top phase will be labeled WL00001TP, bottom phase will be labeled WL00001BP. Also told Ken about broken bottles & no VOCs for unsat) 10/5/98

[illegible] 2 placed on ice & placed in 2nd ice chest because of breakage

Revision No. 1

10/5/98 10/5 See note on COC # 502A

ent : Chrysler (LBG)
der # 338604
oject : Dayton Thermal
ote # 98-7078
count # 501112

Received on : 10.3.98 10/5 # of COC's 2
Delivered by : Fed Ex
Freight # 8061799837077, 8061799836912
Subcontract Y / (N)
TAT : Verbal _____ Hardcopy 10 day

PPS / (RFA) # 251 & 252 Page 1 of
Lab Instructions : TCLP VOA, SV, PCB / TCLP Metals / Corr / Ign / React / TOX

SDG 10/5	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
25104	2	T093098	912811	2·60ml	VOA	1356	1	10.2.98	WA	NA
25102	3	WS00001	912814	2·4oz; 3·8oz	Corr. Ign. React. V.SV.RCRA Metal, PCB, TOX	1317, 1254, 1316, 1359, 798, 2020, 749, 4003	1, 26, 27, 30, 3, 7, 11, 13, 32			
25103	4	↓	912834	1·8oz	TCLP metals	1316, 1143	13, 14			
25101	5	WL00001 DE 10/6 ~~BTP~~	912839	2·60ml; 10AL; 1·500ml PL	Corr. Ign. React. V.SV.RCRA Met. PCB, TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002	24, 26, 28, 1, 5, 9, 16, 20		XX 10/5/98	NA
25104	6	WL00002	913008	6·AL; 1·500ml PL	Corr / Ign / React. SV/RCRA/PCB/TOX/	1317, 1254, 1316, 797, 2019, 748, 4002,	24, 26, 28, 5, 9, 16, 20		WA	NA
↓	7	WL00003 ~~TR~~ DE 10/5	913017	2-60ml · 1·500ml PL · 9AL	Corr / Ign / React V/SV/RCRA/PCB/TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002,	24, 26, 28, 1, 5, 7, 16, 20,		WA	NA/<2

DEllmore 10/5/98

Logged In By : Marlene S. Arujo / Diane Ellmore
Order Entered By : Marlene S. Arujo / Diane Ellmore
Cyanide samples checked for sulfide and chlorine Y / (NA)
Received in good condition Y / (N) ID WL00003 – 4-(AL) broken vial
Bottom vial leaked. Broken
Holding Blank(s) : Counter / Page / CCN's /
Temperature(s) 2.0 C

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

LEACH BLK

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Matrix (soil/water): WATER Lab Sample ID: 913007

Level (low/med): LOW__ Date Received: 10/05/98

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	3.9	B		P_
7440-39-3	Barium___	0.86	B		P_
7440-43-9	Cadmium__	0.30	U		P_
7440-47-3	Chromium_	0.70	U		P_
7439-92-1	Lead_____	1.6	U	E	P_
7439-97-6	Mercury__	0.10	U		CV
7782-49-2	Selenium_	14.0		*	P_
7440-22-4	Silver___	0.60	U		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS00001

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Matrix (soil/water): WATER Lab Sample ID: 912834

Level (low/med): LOW__ Date Received: 10/03/98

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	6.4	B		P_
7440-39-3	Barium___	589			P_
7440-43-9	Cadmium__	6.8			P_
7440-47-3	Chromium_	1.6	B		P_
7439-92-1	Lead_____	87.2		E	P_
7439-97-6	Mercury__	0.10	U		CV
7782-49-2	Selenium_	16.6		*	P_
7440-22-4	Silver___	0.60	U		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

Duplicate_(WS00001D)

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	3.7	U	-4.7	B	3.7	U	3.7	U	3.70	U	P
Barium	0.6	U	0.6	U	0.6	U	0.6	U	0.60	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.30	U	P
Chromium	0.7	U	0.7	U	0.7	U	0.7	U	0.70	U	P
Lead	1.6	U	1.6	U	1.6	U	1.6	U	1.60	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	CV
Selenium	5.2	U	5.2	U	5.2	U	5.2	U	5.20	U	P
Silver	0.6	U	0.6	U	0.6	U	0.6	U	0.60	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.6	U	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	B			P
Chromium			0.7	U	0.7	U	0.7	B			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury			0.1	U							CV
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			0.6	U	0.6	U	0.6	U			P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U					P
Barium			0.6	U	0.6	U					P
Cadmium			0.4	B	0.3	U					P
Chromium			0.7	U	0.7	U					P
Lead			2.5	B	1.6	U					P
Mercury											NR
Selenium			5.2	U	5.2	U					P
Silver			0.6	U	0.6	U					P

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS00001S

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	42.7400		6.4190	B	40.00	90.8		P
Barium	75-125	2321.0000		588.6000		2000.00	86.6		P
Cadmium	75-125	48.8300		6.7590		50.00	84.1		P
Chromium	75-125	165.5000		1.6060	B	200.00	81.9		P
Lead		99.6400		87.2300		20.00	62.0		P
Mercury	75-125	0.9140		0.1000	U	1.00	91.4		CV
Selenium	75-125	24.6800		16.5800		10.00	81.0		P
Silver	75-125	44.8200		0.6000	U	50.00	89.6		P

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS00001M

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	46.2200		6.4190	B	40.00	99.5		P
Barium	75-125	2528.0000		588.6000		2000.00	97.0		P
Cadmium	75-125	53.7500		6.7590		50.00	94.0		P
Chromium	75-125	181.7000		1.6060	B	200.00	90.0		P
Lead		108.7000		87.2300		20.00	107.3		P
Mercury	75-125	0.8910		0.1000	U	1.00	89.1		CV
Selenium	75-125	26.7500		16.5800		10.00	101.7		P
Silver	75-125	47.4700		0.6000	U	50.00	94.9		P

Comments:

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Solid LCS Source: _____

Aqueous LCS Source: PELMER_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	1000.0	993.20	99.3						
Barium	20000.0	19660.00	98.3						
Cadmium	500.0	497.00	99.4						
Chromium	1000.0	968.60	96.9						
Lead	300.0	305.40	101.8						
Mercury									
Selenium	500.0	545.70	109.1						
Silver	1000.0	960.70	96.1						

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33864_ SAS No.: _____ SDG No.: 25103_

Solid LCS Source: _____

Aqueous LCS Source: IVT_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic									
Barium									
Cadmium									
Chromium									
Lead									
Mercury	3.0	2.76	92.0						
Selenium									
Silver									

CompuChem
A Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

OCT 19 1998

98 351 & 2
Dayton Bldg 50
Soil

October 9, 1998

Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

Dear Mr. Vogel:

We at CompuChem are pleased to provide our report for the analysis you requested. Data for the following samples are enclosed:

Client ID Number	CompuChem ID Number	Analysis Code	Case Number	Description of Work Requested
WS00001	912814	1317	33864. 25102	Corrosivity by pH
		1254		Ignitability
		1316		Reactive Cyanide
		1316		Reactive Sulfide
		4003		Total Organic Halide in Soil

Thank you for selecting CompuChem Environmental for your sample analysis. If you have any questions concerning this report or the analytical methods employed, please contact your Sales Representative at 919-379-4100.

Sincerely,

Diane Ellmore

Project Manager

ANALYTICAL REPORT OF DATA - CASE # 33864. 25102

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - CORROSIVITY BY PH ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	WS00001	912814	10/03/98	10/07/98

ANALYTICAL REPORT OF DATA - CASE # 33864. 25102

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - IGNITABILITY ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	WS00001	912814	10/03/98	10/07/98

ANALYTICAL REPORT OF DATA - CASE # 33864. 25102

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - REACTIVE CYANIDE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	WS00001	912814	10/03/98	10/08/98	10/08/98

ANALYTICAL REPORT OF DATA - CASE # 33864. 25102

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - TOTAL ORGANIC HALIDE IN SOIL ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	WS00001	912814	10/03/98	10/09/98	10/09/98

ANALYTICAL REPORT OF DATA - CASE # 33864. 25102

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - REACTIVE SULFIDE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	WS00001	912814	10/03/98	10/08/98	10/08/98

CORROSIVITY BY PH ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (units)	REPORTING LIMIT (units)
1.	WS00001	912814	7.05	0.000

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Zulem / 12326 Date: 10/9/98

IGNITABILITY ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (F)	REPORTING LIMIT (F)
1.	WS00001	912814	NWR	140

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Rulem / 2326 Date: 10/9/98

REACTIVE CYANIDE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	WS00001	912814	BRL	125

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem 12326 Date: 10/9/98

REACTIVE SULFIDE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	WS00001	912814	BRL	125

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Burlem / 2326 Date: 10/9/98

TOTAL ORGANIC HALIDE IN SOIL ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	WS00001	912814	BRL	200

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Burlem / 2326 Date: 10/9/98

IGNITABILITY ANALYSIS

QUALITY CONTROL REPORT

CASE: 33864. 25102
MATRIX: SOIL

Analyst:2326
Date Analyzed 10/07/98

BLANK SPIKE (BS) COMPUCHEM #: 912830

SPIKE ADDED (F)	BS CONC. (F)
81 +\- 2	80.78

ORIG. SAMPLE COMPUCHEM #: 912814
DUPLICATE(DUP.) COMPUCHEM #: 912831

SAMPLE CONC. (F)	DUP. CONC. (F)	RPD
NWR	NWR	N/A

The reporting limit for Ignitability is 140 F

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

CORROSIVITY BY PH ANALYSIS

QUALITY CONTROL REPORT

CASE: 33864. 25102
MATRIX: SOIL

Analyst:2326
Date Analyzed 10/07/98

BLANK SPIKE (BS) COMPUCHEM #: LCS

SPIKE ADDED (units)	BS CONC. (units)	BS % RECOVERY
9.070	9.041	100.0

ORIG. SAMPLE COMPUCHEM #: 912814
DUPLICATE(DUP.) COMPUCHEM #: 912829

SAMPLE CONC. (units)	DUP. CONC. (units)	RPD
7.050	7.060	0.0000

The reporting limit for Corrosivity by pH is 0 units

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

REACTIVE CYANIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33864. 25102
MATRIX: SOIL

Analyst:2059
Date Analyzed 10/08/98

BLANK SPIKE (BS) COMPUCHEM #: 912832

SPIKE ADDED (mg/kg)	BS CONC. (mg/kg)	BS % RECOVERY
250.0	11.99	30.00

ORIG. SAMPLE COMPUCHEM #: 912814
DUPLICATE (DUP.) COMPUCHEM #: 912833

SAMPLE CONC. (mg/kg)	DUP. CONC. (mg/kg)	RPD
BRL	BRL	0.0000

COMPUCHEM #	QC TYPE	AMOUNT DETECTED (mg/kg)
PBS	METHOD BLANK	BRL

The reporting limit for Reactive Cyanide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

REACTIVE SULFIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33864. 25102
MATRIX: SOIL

Analyst:2059
Date Analyzed 10/08/98

BLANK SPIKE (BS) COMPUCHEM #: 912832

SPIKE ADDED (mg/kg)	BS CONC. (mg/kg)	BS % RECOVERY
250.0	444.8	177.9

ORIG. SAMPLE COMPUCHEM #: 912814
DUPLICATE (DUP.) COMPUCHEM #: 912833

SAMPLE CONC. (mg/kg)	DUP. CONC. (mg/kg)	RPD
BRL	BRL	0.0000

COMPUCHEM #	QC TYPE	AMOUNT DETECTED (mg/kg)
PBS	METHOD BLANK	BRL

The reporting limit for Reactive Sulfide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

EPA Region 5 Records Ctr.
350131

TOTAL ORGANIC HALIDE IN SOIL ANALYSIS

QUALITY CONTROL REPORT

CASE: 33864. 25102
MATRIX: SOIL

Analyst:2326
Date Analyzed 10/09/98

BLANK SPIKE (BS) COMPUCHEM #: 912828

SPIKE ADDED (mg/kg)	BS CONC. (mg/kg)	BS % RECOVERY
5.000	5.850	117.0

ORIG. SAMPLE COMPUCHEM #: 912814
DUPLICATE(DUP.) COMPUCHEM #: 912826

SAMPLE CONC. (mg/kg)	DUP. CONC. (mg/kg)	RPD
BRL	BRL	0.0000

COMPUCHEM #	QC TYPE	AMOUNT DETECTED (mg/kg)
PBS	METHOD BLANK	BRL

The reporting limit for Total Organic Halide in Soil is 200 mg/kg

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

... 10 ... # of COC's 2

PPS / RFA # 251 & 252 Page 1 of

Delivered by: Fed Ex

Lab Instructions: TCL VOA, SV, PCB / TCLP Metals / Corr / Ign / React / TOX

... inernal

Freight # 806179983707, 806179983692

Subcontract Y / N

TAT: Verbal _____ Hardcopy 10 day

...ote # 98-7078

...count # 501112

SDG 10/15	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
25104	2	T093098	912811	2.60ml	VOA	1356	1	10.2.98	WA	NA
25102	3	WS00001	912814	2.4oz; 3.8oz	Corr. Ign. React. V, SV, ACRA metal, PCB, TOX	1317, 1254, 1316, 1357, 798, 2020, 749, 4003	21, 26, 28, 30, 3, 7, 11, 18, 22		SO	
25103	4	↓	912834	1.8oz	TCLP metals	48, 1143	13, 14			
25101	5	WL00001 ~~BP~~ DE 10/15 TP	912839	2.60ml; 10AL; 1.500ml PL	Corr. Ign. React. V, SV, ACRA Met. PCB, TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002	24, 26, 28, 1, 5, 9, 16, 20		XX ~~WA~~ DE 10/15/98	NA
25104	6	WL00002	913008	6.AL; 1.500ml PL	Corr / Ign / React. SV/RCRA/PCB/TOX/	1317, 1254, 1316, 797, 2019, 748, 4002,	24, 26, 28, 5, 9, 16, 20		WA	NA
↓	7	WL00001 ~~TR~~ DE 10/15 BP	913017	2-60ml; 1.500ml PL; 9AL	Corr / Ign / React V/SV/RCRA/PCB/TOX	1317, 1254, 1316, 1356, 797, 2019, 748, 4002,	24, 26, 28, 1, 5, 7, 16, 20		WA	NA/<2

D Ellmore 10/5/98

In By: Marlene J. Smith / Diane Ellmore

Order Entered By: Marlene J. Smith / Diane Ellmore

samples checked for sulfide and chlorine Y / NA

Received in good condition Y / N ID ...

Blank(s): Counter / Page / CCN's /

CHRYSLER CORPORATION

Chain-of-Custody

01502 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: 1600 Webster St. Dayton OH 45401 Site Code: SC001 RFA Number: YGQP9800251 and 252 Chrysler PM: Gary Stanczak	Consultant: Leggette, Brashears & Graham, Inc. cc Address: 1210 West County Road E Suite 700 Saint Paul MN 55112 Consultant PM: Ken Vogel Phone: 651 490 1405 Fax: 651 490-1006

Turn-around Time Request: 24 calendar hrs; 48 calendar hrs; 72 calendar hrs; 28 days; 10 days (Triplicate data is)

Data Package Deliverables: (circle) Chrysler Level 1; Chrysler Level 2; Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes: S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed. - Sediment; O - Other (specify) Sump liquid, Rinsewater

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 VOCs	8270 A SVOCs	RCRA Metals 6/7000	TCLP Metals 6/7000	8080 PCBs	9020A TOH Aqueous	9020A TOH Solid	Ch. 7 Corrosivity	Ch. 7 Ignitability	Lab Use Only: Volatiles pH < 2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
WS00001	10-2-98	11:00	C	S	6	X	X	X	X	X		X	X	X					Solid Waste
WL00001	↓	12:00	G	O	13	X	X	X		X	X		X	X					Sump Liquid
WL00002	↓	12:50	G	O	13	X	X	X		X	X		X	X					Rinse water (Rec'd 2 vons broken in transit)
T093098			-	O		X													Trip blank
See C-O-C 1503 for additional analyses.																			

Rec'd 8061998 3707 opened @ 11:57

Sampler(s)	Bottles Relinquished under Airbill No.			Samples Relinquished under Airbill No. 8061998 3692			Temperature (corrected) 3.9 C
Cindy Vanderhorst LJB	Relinquished by: Cindy Vanderhorst	Date: 10-2-98	Time: 16:30	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # 48 + 24	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: Marlene A. Smith	Date: 10-3-98	Time: 11:45	Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Spoke w/ Ken Vogel on 10/5/98 regarding sample ID WL00001 Sample is biphasic. Sample will be split by layer, top phase will be labeled WL00001TP, bottom phase will be labeled WL00001BP. Also told Ken about broken bottles, no VOCs (all unsafe) 10/5/98

WL00002 placed on hold @ placed in sample kept in cooler because of breakage

Revision No. 1

CHRYSLER CORPORATION

Chain-of-Custody

01503 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: 1600 Webster St Dayton OH 45401 Site Code: SC001 RFA Number: YGQP9800251 and 252 Chrysler PM: Gary Stanczuk	Consultant: Leggette, Brashears & Graham, Inc. Address: 1210 West County Road E St. Paul MN 55112 Consultant PM: Ken Vogel Phone: 651 490-1405 Fax: 651 490-1006

Turn-around Time Request:
24 calendar hrs
48 calendar hrs
28 days
10 Days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify) Sump Liquid, Rinse water

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	Ch. 7 Reactivity Aqueous	Ch. 7 Reactivity Solid	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
WS00001	10-2-98	11:00	C	S			X					Solid Waste
WL00001	↓	12:00	G	O		X						Sump Liquid
WL00002		12:50	G	O		X						Rinse Water

See C-O-C 1502 for additional analyses.

Sampler(s)
Cindy Vanderhorst LJB

Cooler ID # 48 + 74

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No.

Relinquished by:	Date:	Time:
Cindy Vanderhorst	10-2-98	1630

Samples Relinquished under Airbill No. 806179983672 and 806179983707 Temperature (corrected) 3.9 C

Received by:	Date:	Time:	Custody Seal Intact?
			Yes No
			Yes No
Received for Laboratory by: Marlene J. Smith	10/3/98	11:45	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Sample WL 00002 placed on hold (or placed in walk in cooler because of breakage

COMPUCHEM
a division of Liberty Analytical
501 Madison Avenue
Cary, NC 27513

October 5, 1998

To: Kenny
Mark
Ricky

From: Diane

Re: Case 33864 SDG 25101 & 25104

Sample WL00001 is biphasic. We received 2- 60 ml vials for this sample. The top phase (TP) is CCN 912839 (SDG 25101). This sample matrix is 'XX' (oil). The bottom phase (BP) is CCN 913017 (SDG 25104). This sample matrix is water. Both CCN's appear on the bottles. Please take care in analyzing the correct phase with the correct CCN.

TABLE 1

EPA Region 5 Records Ctr.
350132

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SVE INSTALLATION ROLLOFF SAMPLING
SUMMARY OF POSITIVE DETECTIONS IN SOIL

VOLATILE ORGANIC COMPOUNDS
UNITS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DATE	1,1,1-TRICHLOROETHANE	TETRACHLOROETHENE	TRICHLOROETHENE
VAP RESIDENTIAL LIMITS ug/kg		1,200,000	94,000	77,000
VAP INDUSTRIAL LIMITS ug/kg		9,800,000	370,000	330,000
TCLP LIMIT ug/L		—	700	500
BUILDING 50 ROLLOFF	01/29/2002	6 J	4,800	6
TCLP ANALYSES (ug/L)		–	<20	<20

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS"
(OHIO ADMINISTRATIVE CODE RULE 3745-300-08)
TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ug/L: MICRGRAMS PER LITER
mg/L: MILLIGRAMS PER LITER
—: NOT ESTABLISHED
J: ESTIMATED VALUE
: EXCEEDS ONE OR MORE CRITERIA

TABLE 2

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SVE INSTALLATION ROLLOFF SAMPLING
SUMMARY OF POSITIVE DETECTIONS IN SOIL

SEMI-VOLATILE ORGANIC COMPOUNDS
CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DATE	ACENAPHTHENE	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (a) PYRENE	BENZO (b) FLUORANTHENE	BENZO (g,h,i) PERYLENE	BENZO (k) FLUORANTHENE	BIS (2-ETHYLHEXYL) PHTHALATE	CARBAZOLE	CHRYSENE	DIBENZO (a,h) ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO (1,2,3-cd) PYRENE	PHENANTHRENE	PYRENE
VAP RESIDENTIAL LIMITS ug/kg		1,900,000	9,500,000	5,500	550	5,500	—	55,000	150,000	—	550,000	550	1,300,000	1,300,000	5,500	—	950,000
VAP INDUSTRIAL LIMITS ug/kg		18,000,000	89,000,000	31,000	3,100	31,000	—	310,000	860,000	—	3,100,000	3,100	12,000,000	12,000,000	31,000	—	8,900,000
TCLP LIMIT ug/L		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BUILDING 50 ROLLOFF	01/29/2002	**61 J**	**310 J**	**1500**	**930**	**1300**	**480**	**650**	**98 J**	**99 J**	**1500**	**210 J**	**2500**	**100 J**	**520**	**1100**	**2500**

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS"
(OHIO ADMINISTRATIVE CODE RULE 3745-300-08)
TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ug/L: MICRGRAMS PER LITER
---: NOT ESTABLISHED
J: ESTIMATED VALUE
: EXCEEDS ONE OR MORE CRITERIA

TABLE 3

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SVE INSTALLATION ROLLOFF SAMPLING
SUMMARY OF POSITIVE DETECTIONS IN SOIL

TOTAL METALS
CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg)

SAMPLE LOCATION	DATE	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM*	COPPER	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	THALLIUM	ZINC
VAP RESIDENTIAL LIMITS mg/kg			6.9	5,000	—	32	230	—	400	16	450	—	—	—	19,000
VAP INDUSTRIAL LIMITS mg/kg			86	140,000	—	300	2,800	—	2,800	230	3,700	—	—	—	370,000
TCLP LIMIT mg/L			5.0	100.0	—	1.0	5.0	—	5.0	0.2	—	1.0	5.0	—	—
BUILDING 50 ROLLOFF	01/29/2002	<0.73	**7.7**	–	**0.52 J**	**0.40 J**	**17.0**	**25.6**	**41.1**	**0.23**	**13.4**	<0.54	<0.16	**1.7 J**	**67.9**
TCLP ANALYSES (mg/L)		--	<0.0053	0.513	--	**0.00090 J**	<0.0017	--	<0.0088	<0.00002	--	**0.0061 J**	<0.0013	--	--

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS"
(OHIO ADMINISTRATIVE CODE RULE 3745-300-08)

TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE

—: NOT ESTABLISHED OR NOT ANALYZED

mg/L: MILLILGRAMS PER LITER

J: ESTIMATED VALUE

<: LESS THAN

*: CHROMIUM LIMITS BASED ON CHROMIUM VI: CHROMIUM III RESIDENTIAL = 8,800 mg/kg; INDUSTRIAL = 63,000 mg/kg

: EXCEEDS ONE OR MORE CRITERIA

TABLE 4

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SVE INSTALLATION ROLLOFF SAMPLING
SUMMARY OF POSITIVE DETECTIONS IN SOIL

PCBs AND PESTICIDES

CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DATE	PCB 1254	GAMMA CHLORDAE	DIELDRIN
VAP RESIDENTIAL LIMITS ug/kg		1,000	---	---
VAP INDUSTRIAL LIMITS ug/kg		25,000	---	---
TCLP LIMIT ug/L		--	---	---
BUILDING 50 ROLLOFF	01/29/2002	340 J	8.9 J	11 J

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS"
(OHIO ADMINISTRATIVE CODE RULE 3745-300-08)

TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE

ug/L: MICRGRAMS PER LITER

---: NOT ESTABLISHED

J: ESTIMATED VALUE

<: LESS THAN

TABLE 5

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

BUILDING 50 SVE INSTALLATION ROLLOFF SAMPLING
SUMMARY OF POSITIVE DETECTIONS IN SOIL

HERBICIDES

CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DATE	DINOSEB	2,4-D	2,4,5-T	2,4,5-TP
VAP RESIDENTIAL LIMITS ug/kg		---	---	---	---
VAP INDUSTRIAL LIMITS ug/kg		---	---	---	---
TCLP LIMIT ug/L		--	10,000	400,000	1,000
BUILDING 50 ROLLOFF	01/29/2002	<1.9	<3.8	0.52 J	0.53 J

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS"
(OHIO ADMINISTRATIVE CODE RULE 3745-300-08)

TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE

---: NOT ESTABLISHED OR NOT ANALYZED

ug/L: MICRGRAMS PER LITER

J: ESTIMATED VALUE

<: LESS THAN

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Electronic Data Deliverables

MAR - 1 2002

ENTERED IN DATABASE
BY/DATE DVS
CHECKED BY DVS
DATE 3/1/02

10160 - DaimlerChrysler Corporation

SDG: DCJ24 Dayton Thermal, Bldg 50 SVE/Dayton, OH

Sample Reference List for EDD File C3766313.TXT

Laboratory Sample No.	Laboratory Group No.	Sample Description			Collected
3766313	**795083**	Rolloff_Bldg._50 Composite Soil Sample	Site Code: SC001	RFA#: LBG02004	01/29/02 14:10
3766314		Rolloff_Bldg._50 Composite Soil Sample TCLP NVE	Site Code: SC001	RFA#: LBG02004	01/29/02 14:10
3766315		Rolloff_Bldg._50 Composite Soil Sample TCLP ZHE	Site Code: SC001	RFA#: LBG02004	01/29/02 14:10
3766316		TCLP_NVE_Tumbler_Blank	Site Code: SC001	RFA#: LBG02004	
3766317		TCLP_ZHE_Tumbler_Blank	Site Code: SC001	RFA#: LBG02004	

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ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 795083. Samples arrived at the laboratory on Wednesday, January 30, 2002. The PO# for this group is N99C403749-B.

Client Description		Lancaster Labs Number
Rolloff_Bldg._50 Composite Soil Sample		3766313
Rolloff_Bldg._50 Composite Soil Sample	TCLP NVE	3766314
Rolloff_Bldg._50 Composite Soil Sample	TCLP ZHE	3766315
TCLP_NVE_Tumbler_Blank		3766316
TCLP_ZHE_Tumbler_Blank		3766317

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Leggette, Brashears & Graham Attn: Mr. Ken Vogel

Lancaster Laboratories
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Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

Christine M. Dulaney
Sr. Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681

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MAR - 1 2002

Lancaster Laboratories Sample No. SW 3766313

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/27/2002 at 16:17
Discard: 04/29/2002
Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.23		0.0028	mg/kg	1
01625	Thallium	7440-28-0	1.7	J	0.96	mg/kg	1
01644	Antimony	7440-36-0	N.D.		0.73	mg/kg	1
01647	Beryllium	7440-41-7	0.52	J	0.021	mg/kg	1
01649	Cadmium	7440-43-9	0.40	J	0.062	mg/kg	1
01651	Chromium	7440-47-3	17.0		0.16	mg/kg	1
01653	Copper	7440-50-8	25.6		0.17	mg/kg	1
01655	Lead	7439-92-1	41.1		0.92	mg/kg	1
01661	Nickel	7440-02-0	13.4		0.23	mg/kg	1
01666	Silver	7440-22-4	N.D.		0.16	mg/kg	1
01672	Zinc	7440-66-6	67.9		0.37	mg/kg	1
06935	Arsenic TR	7440-38-2	7.7		0.43	mg/kg	1
06936	Selenium TR	7782-49-2	N.D.		0.54	mg/kg	1
00111	Moisture	n.a.	12.2		0.50	% by wt.	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The result reported above is on an as-received basis.						
00394	pH	n.a.	8.75		0.010		1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.						
00496	Corrosivity	n.a.	See Below			See Below	1
	Corrosivity: The pH of a 1:1 slurry (with deionized water) was 8.75 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.						
00542	Ignitability	n.a.	See Below			See Below	1
	The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.						
01121	Reactivity	n.a.	See Below			See Below	1
	Reactivity: The sample was extracted by the interim method described in SW 846,						

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Lancaster Laboratories Sample No. SW 3766313

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/27/2002 at 16:17
Discard: 04/29/2002
Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
	Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.						
01122	Sulfide (Reactivity)	n.a.	N.D.		20.	mg/kg	1
01123	Cyanide (Reactivity)	n.a.	N.D.		99.	mg/kg	1
01225	TCL Pesticides in Solids						
01218	Gamma BHC - Lindane	58-89-9	N.D.		3.9	ug/kg	20
01219	Heptachlor	76-44-8	N.D.		3.9	ug/kg	20
01220	Aldrin	309-00-2	N.D.		3.9	ug/kg	20
01221	p,p-DDT	50-29-3	N.D.		11.	ug/kg	20
01222	Dieldrin	60-57-1	11.	J	7.5	ug/kg	20
01223	Endrin	72-20-8	N.D.		7.5	ug/kg	20
01859	Methoxychlor	72-43-5	N.D.		91.	ug/kg	20
01981	Alpha BHC	319-84-6	N.D.		3.9	ug/kg	20
01982	Beta BHC	319-85-7	N.D.		3.9	ug/kg	20
01983	Delta BHC	319-86-8	N.D.		3.9	ug/kg	20
01984	Heptachlor Epoxide	1024-57-3	N.D.		3.9	ug/kg	20
01985	p,p-DDE	72-55-9	N.D.		7.5	ug/kg	20
01986	p,p-DDD	72-54-8	N.D.		14.	ug/kg	20
01988	Toxaphene	8001-35-2	N.D.		250.	ug/kg	20
01989	Endosulfan I	959-98-8	N.D.		3.9	ug/kg	20
01990	Endosulfan II	33213-65-9	N.D.		7.5	ug/kg	20
01991	Endosulfan Sulfate	1031-07-8	N.D.		7.5	ug/kg	20
01992	Endrin Aldehyde	7421-93-4	N.D.		14.	ug/kg	20
01993	PCB-1016	12674-11-2	N.D.		93.	ug/kg	20
01994	PCB-1221	11104-28-2	N.D.		150.	ug/kg	20
01995	PCB-1232	11141-16-5	N.D.		80.	ug/kg	20
01996	PCB-1242	53469-21-9	N.D.		180.	ug/kg	20
01997	PCB-1248	12672-29-6	N.D.		75.	ug/kg	20
01998	PCB-1254	11097-69-1	340.	J	75.	ug/kg	20
01999	PCB-1260	11096-82-5	N.D.		75.	ug/kg	20
03017	Endrin Ketone	53494-70-5	N.D.		7.5	ug/kg	20

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Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03025	Alpha Chlordane	5103-71-9	N.D.		3.9	ug/kg	20
03026	Gamma Chlordane	5103-74-2	8.9	J	3.9	ug/kg	20

DCB surrogate recovery is outside the QC limits due to the dilution required for analysis of the sample.

Accurate spike recoveries could not be determined for the MS/MSD due to the dilution required for analysis.

The associated LCS data is within the QC specifications with the exception of Endrin Aldehyde. Recovery for Endrin Aldehyde is high enough to ensure no adverse effect on the validity of the data. The data is reported at the client's request.

01863 Appendix IX Herbicides in Soil

04174	2,4-D	94-75-7	N.D.		3.8	ug/kg	1
04175	Dinoseb	88-85-7	N.D.		1.9	ug/kg	1
04176	2,4,5-TP	93-72-1	0.53	J	0.38	ug/kg	1
04177	2,4,5-T	93-76-5	0.52	J	0.38	ug/kg	1

04688 TCL SW846 Semivolatiles Soil

01185	Phenol	108-95-2	N.D.		76.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.		38.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.		38.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.		38.	ug/kg	1
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.		38.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.		76.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.		76.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.		76.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.		76.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.		76.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.		38.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.		38.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.		38.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.		38.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.		38.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3766313

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Discard: 04/29/2002
Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03759	Isophorone	78-59-1	N.D.		38.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		76.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.		38.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		76.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		38.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		38.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		76.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.		38.	ug/kg	1
04691	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		38.	ug/kg	1
04692	4-Methylphenol	106-44-5	N.D.		76.	ug/kg	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04693	4-Chloroaniline	106-47-8	N.D.		38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.		38.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		76.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		38.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil						
01191	Acenaphthene	83-32-9	61.	J	38.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		76.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	2,500.		38.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.		760.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		38.	ug/kg	1
03768	Fluorene	86-73-7	100.	J	38.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		38.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		76.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		38.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		76.	ug/kg	1

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Discard: 04/29/2002
Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03774	Hexachlorobenzene	118-74-1	N.D.		38.	ug/kg	1
03775	Phenanthrene	85-01-8	1,100.		38.	ug/kg	1
03776	Anthracene	120-12-7	310.	J	38.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		76.	ug/kg	1
03778	Fluoranthene	206-44-0	2,500.		38.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		76.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,500.		38.	ug/kg	1
03782	Chrysene	218-01-9	1,500.		38.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		76.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	98.	J	76.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		76.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,300.		38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	650.		38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	930.		38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	520.		38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	210.	J	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	480.		38.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		76.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		38.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		76.	ug/kg	1
04702	Carbazole	86-74-8	99.	J	76.	ug/kg	1
06292	TCL by 8260 (soil)						
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	1
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	1
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	1
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	1
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	1
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	1
05457	1,1,1-Trichloroethane	71-55-6	6.	J	1.	ug/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	1
05460	Benzene	71-43-2	N.D.		1.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3766313

Collected:01/29/2002 14:10 by KM

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Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/kg	1
05462	Trichloroethene	79-01-6	6.	1.	ug/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	1.	ug/kg	1
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	1.	ug/kg	1
05468	Tetrachloroethene	127-18-4	4,800.	140.	ug/kg	125
05470	Dibromochloromethane	124-48-1	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05474	Ethylbenzene	100-41-4	N.D.	1.	ug/kg	1
05477	Styrene	100-42-5	N.D.	1.	ug/kg	1
05478	Bromoform	75-25-2	N.D.	1.	ug/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/kg	1
06293	Acetone	67-64-1	N.D.	8.	ug/kg	1
06294	Carbon Disulfide	75-15-0	N.D.	1.	ug/kg	1
06296	2-Butanone	78-93-3	N.D.	5.	ug/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/kg	1
06299	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/kg	1
06300	2-Hexanone	591-78-6	N.D.	3.	ug/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	02/05/2002 08:53	Damary Valentin	1
01625	Thallium	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01644	Antimony	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01647	Beryllium	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01649	Cadmium	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01651	Chromium	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01653	Copper	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01655	Lead	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01661	Nickel	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
01666	Silver	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1

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Lancaster Laboratories Sample No. SW 3766313

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/27/2002 at 16:17
Discard: 04/29/2002
Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

AR-50 SDG#: DCJ24-01

01672	Zinc	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
06935	Arsenic TR	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
06936	Selenium TR	SW-846 6010B	1	02/05/2002 10:17	Joanne M Gates	1
00111	Moisture	EPA 160.3 modified	1	02/05/2002 17:44	Justin M Bowers	1
00394	pH	SW-846 9045C (modified)	1	02/01/2002 15:30	Luz M Groff	1
00496	Corrosivity	SW-846 Chapter 7	1	02/01/2002 15:30	Luz M Groff	1
00542	Ignitability	40 CFR 261.21	1	02/04/2002 18:25	Justin M Bowers	1
01121	Reactivity	SW-846 Chapter 7.3	1	02/01/2002 06:30	Susan A Engle	1
01122	Sulfide (Reactivity)	SW-846 9034	1	02/01/2002 06:30	Susan A Engle	1
01123	Cyanide (Reactivity)	SW-846 9012A (modified)	1	02/03/2002 16:41	Matthew J Mercer	1
01225	TCL Pesticides in Solids	SW-846 8081A/8082	1	02/09/2002 03:30	Anita M Dale	20
01863	Appendix IX Herbicides in Soil	SW-846 8151A	1	02/04/2002 23:24	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	02/07/2002 03:54	Jolene M Graham	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	02/07/2002 03:54	Jolene M Graham	1
06292	TCL by 8260 (soil)	SW-846 8260B	1	02/01/2002 18:58	Bryan J Polick	125
06292	TCL by 8260 (soil)	SW-846 8260B	1	02/04/2002 17:57	Patricia L Nolt	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	02/01/2002 13:48	Susan McMahon-Luu	n.a.
00374	GC/MS VOA Soil Prep	SW-846 5030A	2	02/04/2002 17:15	Patricia L Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	02/05/2002 08:15	John A Myers	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	02/05/2002 17:45	Luis E Villamil	1
04181	Herbicide Soil Extraction	SW-846 3550B/8151A	1	02/01/2002 07:30	Deborah M Zimmerman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2002 19:45	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	02/04/2002 20:50	Annamaria Stipkovits	1

Analysis Report

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MAR - 1 2002

Lancaster Laboratories Sample No. TL 3766314

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:18
Discard: 04/27/2002

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Rolloff_Bldg._50 Composite Soil Sample TCLP NVE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

NVE50 SDG#: DCJ24-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000026	mg/l	1

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, December, 1994). A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

01335	Arsenic	7440-38-2	N.D.	0.0053	mg/l	1
01336	Selenium	7782-49-2	0.0061 J	0.0043	mg/l	1
01746	Barium	7440-39-3	0.513	0.00042	mg/l	1
01749	Cadmium	7440-43-9	0.00090J	0.00064	mg/l	1
01751	Chromium	7440-47-3	N.D.	0.0017	mg/l	1
01755	Lead	7439-92-1	N.D.	0.0088	mg/l	1
01766	Silver	7440-22-4	N.D.	0.0013	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	02/21/2002 07:42	Damary Valentin	1
01335	Arsenic	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
01336	Selenium	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
01746	Barium	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
01749	Cadmium	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
01751	Chromium	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
01755	Lead	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
01766	Silver	SW-846 6010B	1	02/21/2002 06:56	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	01/31/2002 15:15	Thomas H Collins	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	02/20/2002 17:00	Irimar Leon	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	02/20/2002 20:25	Nelli S Markaryan	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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Lancaster Laboratories Sample No. TL 3766314

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:18
Discard: 04/27/2002

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Rolloff_Bldg._50 Composite Soil Sample TCLP NVE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

NVE50 SDG#: DCJ24-02

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MAR - 1 2002

Lancaster Laboratories Sample No. TL 3766315

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:19
Discard: 04/27/2002

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Rolloff_Bldg._50 Composite Soil Sample TCLP ZHE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

ZHE50 SDG#: DCJ24-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03636	TCLP by 8260					
05386	Vinyl Chloride	75-01-4	N.D.	0.020	mg/l	20
05390	1,1-Dichloroethene	75-35-4	N.D.	0.020	mg/l	20
05396	Chloroform	67-66-3	N.D.	0.020	mg/l	20
05399	Carbon Tetrachloride	56-23-5	N.D.	0.020	mg/l	20
05401	Benzene	71-43-2	N.D.	0.020	mg/l	20
05402	1,2-Dichloroethane	107-06-2	N.D.	0.020	mg/l	20
05403	Trichloroethene	79-01-6	N.D.	0.020	mg/l	20
05409	Tetrachloroethene	127-18-4	N.D.	0.020	mg/l	20
05413	Chlorobenzene	108-90-7	N.D.	0.020	mg/l	20
06305	2-Butanone	78-93-3	N.D.	0.060	mg/l	20

The volatile organic analyses were performed on a zero headspace toxicity characteristic leachate of the submitted waste. The leachate was prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, 12/94).

If the TCLP extract contains any one of the Toxicity Characteristic (TC) constituents in an amount equal to or exceeding the concentrations specified in 40 CFR Part 261.24, the waste possesses the characteristic of toxicity and is a hazardous waste. These limits are listed below in mg/L. Other limits may apply for analyses performed under other regulations.

Benzene	0.5	1,1-Dichloroethene	0.7
Carbon Tetrachloride	0.5	Methyl Ethyl Ketone (2-Butanone)	200.0
Chlorobenzene	100.0	Tetrachloroethene	0.7
Chloroform	6.0	Trichloroethene	0.5
1,2-Dichloroethane	0.5	Vinyl Chloride	0.2

The sample was analyzed after the 14-day holding time had expired, as per client request.

Laboratory Chronicle

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Lancaster Laboratories Sample No. TL 3766315

Collected:01/29/2002 14:10 by KM

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:19
Discard: 04/27/2002

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Rolloff_Bldg._50 Composite Soil Sample TCLP ZHE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

ZHE50 SDG#: DCJ24-03

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	02/21/2002 14:38	Joseph P Casillo	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	01/31/2002 16:10	William P Stafford	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/21/2002 14:38	Joseph P Casillo	n.a.

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Lancaster Laboratories Sample No. TL 3766316

Collected: n.a.

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:19
Discard: 04/27/2002
TCLP_NVE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

NVTBB SDG#: DCJ24-04BL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000026	mg/l	1

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, December, 1994). A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

01335	Arsenic	7440-38-2	N.D.	0.0053	mg/l	1
01336	Selenium	7782-49-2	N.D.	0.0043	mg/l	1
01746	Barium	7440-39-3	0.0017 J	0.00042	mg/l	1
01749	Cadmium	7440-43-9	N.D.	0.00064	mg/l	1
01751	Chromium	7440-47-3	N.D.	0.0017	mg/l	1
01755	Lead	7439-92-1	N.D.	0.0088	mg/l	1
01766	Silver	7440-22-4	N.D.	0.0013	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	02/21/2002 07:49	Damary Valentin	1
01335	Arsenic	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
01336	Selenium	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
01746	Barium	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
01749	Cadmium	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
01751	Chromium	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
01755	Lead	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
01766	Silver	SW-846 6010B	1	02/21/2002 07:45	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	01/31/2002 15:15	Thomas H Collins	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	02/20/2002 17:00	Irimar Leon	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	02/20/2002 20:25	Nelli S Markaryan	1

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Lancaster Laboratories Sample No. TL 3766316

Collected: n.a.

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:19
Discard: 04/27/2002
TCLP_NVE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

NVTBB SDG#: DCJ24-04BL

Account Number: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

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MAR - 1 2002

Lancaster Laboratories Sample No. TL 3766317

Collected: n.a.

Account Number: 10160

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:19
Discard: 04/27/2002
TCLP_ZHE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

ZHTBB SDG#: DCJ24-05BL*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03636	TCLP by 8260					
05386	Vinyl Chloride	75-01-4	N.D.	0.020	mg/l	20
05390	1,1-Dichloroethene	75-35-4	N.D.	0.020	mg/l	20
05396	Chloroform	67-66-3	N.D.	0.020	mg/l	20
05399	Carbon Tetrachloride	56-23-5	N.D.	0.020	mg/l	20
05401	Benzene	71-43-2	N.D.	0.020	mg/l	20
05402	1,2-Dichloroethane	107-06-2	N.D.	0.020	mg/l	20
05403	Trichloroethene	79-01-6	N.D.	0.020	mg/l	20
05409	Tetrachloroethene	127-18-4	0.066 J	0.020	mg/l	20
05413	Chlorobenzene	108-90-7	N.D.	0.020	mg/l	20
06305	2-Butanone	78-93-3	N.D.	0.060	mg/l	20

The volatile organic analyses were performed on a zero headspace toxicity characteristic leachate of the submitted waste. The leachate was prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, 12/94).

If the TCLP extract contains any one of the Toxicity Characteristic (TC) constituents in an amount equal to or exceeding the concentrations specified in 40 CFR Part 261.24, the waste possesses the characteristic of toxicity and is a hazardous waste. These limits are listed below in mg/L. Other limits may apply for analyses performed under other regulations.

Benzene	0.5	1,1-Dichloroethene	0.7
Carbon Tetrachloride	0.5	Methyl Ethyl Ketone (2-Butanone)	200.0
Chlorobenzene	100.0	Tetrachloroethene	0.7
Chloroform	6.0	Trichloroethene	0.5
1,2-Dichloroethane	0.5	Vinyl Chloride	0.2

The sample was analyzed after the 14-day holding time had expired, as per client request.

Laboratory Chronicle

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. TL 3766317

Collected: n.a.

Submitted: 01/30/2002 09:00
Reported: 02/25/2002 at 10:19
Discard: 04/27/2002
TCLP_ZHE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

Account Number: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

ZHTBB SDG#: DCJ24-05BL*

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	02/21/2002 14:13	Joseph P Casillo	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	01/31/2002 16:10	William P Stafford	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/21/2002 14:13	Joseph P Casillo	n.a.

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MAR - 1 2002

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 02/28/02 at 07:34 AM

Group Number: 795083

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 020310015A	Sample number(s): 3766313							
2,4-D	N.D.	3.3	ug/kg	77		63-132		
Dinoseb	N.D.	1.7	ug/kg	7		1-36		
2,4,5-TP	N.D.	.33	ug/kg	88		57-135		
2,4,5-T	N.D.	.33	ug/kg	93		50-159		
Batch number: 02032039401A	Sample number(s): 3766313							
pH				100	100	98-102	0	1
Batch number: 02032112101A	Sample number(s): 3766313							
Sulfide (Reactivity)	N.D.	20.	mg/kg	87		80-120		
Batch number: 02034104101A	Sample number(s): 3766313							
Cyanide (Reactivity)	N.D.	99.9800 04	mg/kg	102		88-114		
Batch number: 020355708001	Sample number(s): 3766313							
Thallium	N.D.	.85	mg/kg	106		57-143		
Antimony	N.D.	.65	mg/kg	137		26-174		
Beryllium	N.D.	.019	mg/kg	100		78-122		
Cadmium	N.D.	.055	mg/kg	96		77-123		
Chromium	0.18 J	.14	mg/kg	104		80-120		
Copper	N.D.	.15	mg/kg	102		82-117		
Lead	N.D.	.82	mg/kg	97		76-124		
Nickel	0.25 J	.2	mg/kg	98		78-122		
Silver	N.D.	.14	mg/kg	131		93-156		
Zinc	0.42 J	.33	mg/kg	100		77-123		
Arsenic TR	0.44 J	.38	mg/kg	100		74-126		
Selenium TR	N.D.	.48	mg/kg	105		74-126		
Batch number: 020355711001	Sample number(s): 3766313							
Mercury	N.D.	.0025	mg/kg	86		68-132		
Batch number: 02035SLE026	Sample number(s): 3766313							
Phenol	N.D.	67.	ug/kg	91		59-121		
2-Chlorophenol	N.D.	33.	ug/kg	94		71-114		
1,4-Dichlorobenzene	N.D.	33.	ug/kg	90		61-110		
N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	90		62-118		
1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	93		63-116		
4-Chloro-3-methylphenol	N.D.	67.	ug/kg	87		72-123		
Acenaphthene	N.D.	33.	ug/kg	98		70-115		
4-Nitrophenol	N.D.	170.	ug/kg	67		63-138		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	98		70-130		
Pentachlorophenol	N.D.	170.	ug/kg	85		52-112		
Pyrene	N.D.	33.	ug/kg	100		67-123		
2-Nitrophenol	N.D.	67.	ug/kg	92		76-114		
2,4-Dimethylphenol	N.D.	67.	ug/kg	92		60-110		
2,4-Dichlorophenol	N.D.	67.	ug/kg	91		71-118		
2,4,6-Trichlorophenol	N.D.	67.	ug/kg	96		72-118		
2,4-Dinitrophenol	N.D.	670.	ug/kg	82		32-125		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	99		52-125		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Group Number: 795083
Reported: 02/28/02 at 07:34 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	91		66-114		
1,3-Dichlorobenzene	N.D.	33.	ug/kg	90		60-110		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	91		64-107		
Hexachloroethane	N.D.	33.	ug/kg	87		60-113		
Nitrobenzene	N.D.	33.	ug/kg	90		65-116		
Isophorone	N.D.	33.	ug/kg	93		64-108		
bis(2-Chloroethoxy)methane	N.D.	67.	ug/kg	96		68-122		
Naphthalene	N.D.	33.	ug/kg	93		65-113		
Hexachlorobutadiene	N.D.	67.	ug/kg	96		61-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	124		8-127		
2-Chloronaphthalene	N.D.	33.	ug/kg	95		69-114		
Acenaphthylene	N.D.	33.	ug/kg	102		72-117		
Dimethylphthalate	N.D.	67.	ug/kg	94		72-119		
2,6-Dinitrotoluene	N.D.	33.	ug/kg	95		74-115		
Fluorene	N.D.	33.	ug/kg	92		65-119		
4-Chlorophenyl-phenylether	N.D.	33.	ug/kg	98		64-119		
Diethylphthalate	N.D.	67.	ug/kg	93		71-121		
N-Nitrosodiphenylamine	N.D.	33.	ug/kg	104		60-120		
4-Bromophenyl-phenylether	N.D.	67.	ug/kg	100		71-115		
Hexachlorobenzene	N.D.	33.	ug/kg	104		62-128		
Phenanthrene	N.D.	33.	ug/kg	90		64-116		
Anthracene	N.D.	33.	ug/kg	92		64-116		
Di-n-butylphthalate	N.D.	67.	ug/kg	90		72-119		
Fluoranthene	N.D.	33.	ug/kg	87		65-115		
Butylbenzylphthalate	N.D.	67.	ug/kg	92		59-150		
Benzo(a)anthracene	N.D.	33.	ug/kg	95		69-115		
Chrysene	N.D.	33.	ug/kg	96		67-119		
3,3'-Dichlorobenzidine	N.D.	67.	ug/kg	86		21-104		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	90		73-126		
Di-n-octylphthalate	N.D.	67.	ug/kg	101		69-131		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	95		66-122		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	98		66-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	96		72-118		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	85		73-118		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	97		78-126		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	90		73-119		
2-Methylphenol	N.D.	33.	ug/kg	90		66-111		
2,2'-oxybis(1-Chloropropane)	N.D.	33.	ug/kg	110		65-139		
4-Methylphenol	N.D.	67.	ug/kg	93		49-130		
4-Chloroaniline	N.D.	33.	ug/kg	98		9-100		
2-Methylnaphthalene	N.D.	33.	ug/kg	91		65-108		
2,4,5-Trichlorophenol	N.D.	67.	ug/kg	94		74-117		
2-Nitroaniline	N.D.	33.	ug/kg	94		78-122		
3-Nitroaniline	N.D.	67.	ug/kg	71		29-103		
Dibenzofuran	N.D.	33.	ug/kg	95		66-111		
4-Nitroaniline	N.D.	67.	ug/kg	61		48-116		
Carbazole	N.D.	67.	ug/kg	89		71-114		
Batch number: 020360010A	Sample number(s): 3766313							
Gamma BHC - Lindane	N.D.	.17	ug/kg	88		74-138		
Heptachlor	N.D.	.17	ug/kg	91		73-141		
Aldrin	N.D.	.17	ug/kg	94		75-145		

*- Outside of specification
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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 02/28/02 at 07:34 AM

Group Number: 795083

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDT	N.D.	.5	ug/kg	94		78-155		
Dieldrin	N.D.	.33	ug/kg	91		76-135		
Endrin	N.D.	.33	ug/kg	107		80-155		
Methoxychlor	N.D.	4.	ug/kg	124		71-179		
Alpha BHC	N.D.	.17	ug/kg	82		66-141		
Beta BHC	N.D.	.17	ug/kg	85		79-147		
Delta BHC	N.D.	.17	ug/kg	94		67-170		
Heptachlor Epoxide	N.D.	.17	ug/kg	91		81-140		
p,p-DDE	N.D.	.33	ug/kg	90		68-151		
p,p-DDD	N.D.	.6	ug/kg	88		77-150		
Toxaphene	N.D.	11.	ug/kg					
Endosulfan I	N.D.	.17	ug/kg	94		60-146		
Endosulfan II	N.D.	.33	ug/kg	91		73-144		
Endosulfan Sulfate	N.D.	.33	ug/kg	84		80-151		
Endrin Aldehyde	N.D.	.6	ug/kg	61*		77-125		
PCB-1016	N.D.	4.1	ug/kg					
PCB-1221	N.D.	6.5	ug/kg					
PCB-1232	N.D.	3.5	ug/kg					
PCB-1242	N.D.	7.8	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	3.3	ug/kg					
Endrin Ketone	N.D.	.33	ug/kg	87		75-143		
Alpha Chlordane	N.D.	.17	ug/kg	91		79-142		
Gamma Chlordane	N.D.	.17	ug/kg	91		73-144		
Batch number: 02036820003B	Sample number(s): 3766313							
Moisture				100	100	99-101	0	4
Batch number: 020515705002	Sample number(s): 3766314,3766316							
Arsenic	N.D.	.0053	mg/l	100		90-110		
Selenium	N.D.	.0043	mg/l	99		90-110		
Barium	N.D.	.00042	mg/l	100		93-109		
Cadmium	N.D.	.00064	mg/l	100		94-110		
Chromium	N.D.	.0017	mg/l	99		95-110		
Lead	N.D.	.0088	mg/l	99		94-110		
Silver	N.D.	.0013	mg/l	106		94-110		
Batch number: 020515713002	Sample number(s): 3766314,3766316							
Mercury	N.D.	.000026	mg/l	96		84-124		
Batch number: D020282AC	Sample number(s): 3766313							
Chloromethane	N.D.	2.	ug/kg	97		40-117		
Vinyl Chloride	N.D.	1.	ug/kg	100		45-122		
Bromomethane	N.D.	2.	ug/kg	102		48-129		
Chloroethane	N.D.	2.	ug/kg	102		51-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	109		64-144		
Methylene Chloride	N.D.	2.	ug/kg	105		76-129		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	111		78-131		
1,1-Dichloroethane	N.D.	1.	ug/kg	107		82-130		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	113		85-127		
Chloroform	N.D.	1.	ug/kg	109		84-123		

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 02/28/02 at 07:34 AM

Group Number: 795083

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,1-Trichloroethane	N.D.	1.	ug/kg	107		69-133		
Carbon Tetrachloride	N.D.	1.	ug/kg	115		61-139		
Benzene	N.D.	1.	ug/kg	108		85-125		
1,2-Dichloroethane	N.D.	1.	ug/kg	111		81-128		
Trichloroethene	N.D.	1.	ug/kg	106		78-129		
1,2-Dichloropropane	N.D.	1.	ug/kg	103		81-126		
Bromodichloromethane	N.D.	1.	ug/kg	108		80-123		
Toluene	N.D.	1.	ug/kg	99		84-125		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	98		82-121		
Dibromochloromethane	N.D.	1.	ug/kg	103		75-123		
Chlorobenzene	N.D.	1.	ug/kg	100		86-122		
Ethylbenzene	N.D.	1.	ug/kg	101		86-127		
Styrene	N.D.	1.	ug/kg	103		87-124		
Bromoform	N.D.	1.	ug/kg	107		66-128		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	97		69-125		
Acetone	N.D.	7.	ug/kg	154		37-168		
Carbon Disulfide	N.D.	1.	ug/kg	111		49-163		
2-Butanone	N.D.	4.	ug/kg	142		48-148		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	93		79-121		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	104		82-122		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	115		62-137		
2-Hexanone	N.D.	3.	ug/kg	111		51-142		
Xylene (Total)	N.D.	1.	ug/kg	103		87-127		
Batch number: N020521AC	Sample number(s): 3766315,3766317							
Vinyl Chloride	N.D.	20.	ug/l	116		55-121		
1,1-Dichloroethene	N.D.	20.	ug/l	120		67-140		
Chloroform	N.D.	20.	ug/l	110		86-124		
Carbon Tetrachloride	N.D.	20.	ug/l	102		77-130		
Benzene	N.D.	20.	ug/l	108		84-120		
1,2-Dichloroethane	N.D.	20.	ug/l	119		77-132		
Trichloroethene	N.D.	20.	ug/l	102		87-117		
Tetrachloroethene	N.D.	20.	ug/l	89		79-136		
Chlorobenzene	N.D.	20.	ug/l	96		87-121		
2-Butanone	N.D.	60.	ug/l	97		58-141		
Batch number: R020321AA	Sample number(s): 3766313							
Tetrachloroethene	N.D.	125.	ug/kg	106		76-141		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 020310015A	Sample number(s): 3766313								
2,4-D	119	89	41-158	29	50				
Dinoseb	1	5	1-48	24	50				
2,4,5-TP	97	96	30-151	1	50				
2,4,5-T	112	81	13-189	30	50				

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Quality Control Summary

Client Name: DaimlerChrysler Corporation Group Number: 795083
Reported: 02/28/02 at 07:34 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02032039401A	Sample number(s): 3766313								
pH						4.94	4.95	0	2
Batch number: 02032112101A	Sample number(s): 3766313								
Sulfide (Reactivity)	51	58	19-113	13	22				
Batch number: 02034104101A	Sample number(s): 3766313								
Cyanide (Reactivity)	0	0	0-5	0	19				
Batch number: 020355708001	Sample number(s): 3766313								
Thallium	91	94	72-109	3	20	1.5 J	1.3 J	12 (1)	20
Antimony	91	95	75-125	4	20	N.D.	N.D.	0 (1)	20
Beryllium	99	100	89-113	2	20	0.46 J	0.64	34* (1)	20
Cadmium	90	91	75-125	1	20	0.35 J	0.41 J	17 (1)	20
Chromium	103	107	75-125	2	20	14.9	16.0	7 (1)	20
Copper	111	111	75-125	0	20	22.5	26.5	16	20
Lead	95	110	75-125	9	20	36.0	43.2	18 (1)	20
Nickel	92	94	75-125	2	20	11.8	14.6	22* (1)	20
Silver	104	107	76-124	3	20	N.D.	0.14 J	200* (1)	20
Zinc	118	109	75-125	4	20	59.7	71.3	18	20
Arsenic TR	96	98	76-109	2	20	6.7	7.4	9	20
Selenium TR	96	98	74-112	3	20	N.D.	N.D.	0 (1)	20
Batch number: 020355711001	Sample number(s): 3766313								
Mercury	84	118	80-120	15	20	0.20	0.21	4 (1)	20
Batch number: 02035SLE026	Sample number(s): 3766313								
Phenol	73	73	58-119	0	30				
2-Chlorophenol	66	70	57-122	6	30				
1,4-Dichlorobenzene	67	70	40-122	4	30				
N-Nitroso-di-n-propylamine	67	73	58-122	9	30				
1,2,4-Trichlorobenzene	67	72	50-124	7	30				
4-Chloro-3-methylphenol	65	77	61-129	16	30				
Acenaphthene	49*	48*	51-132	4	30				
4-Nitrophenol	-72*	-72*	31-162	0	30				
2,4-Dinitrotoluene	36*	36*	61-133	1	30				
Pentachlorophenol	66	70	17-128	6	30				
Pyrene	67	80	34-151	14	30				
2-Nitrophenol	57	57	50-133	1	30				
2,4-Dimethylphenol	64	70	46-124	8	30				
2,4-Dichlorophenol	64	74	42-140	15	30				
2,4,6-Trichlorophenol	0*	45	44-139	200*	30				
2,4-Dinitrophenol	0*	0*	20-150	0	30				
4,6-Dinitro-2-methylphenol	0*	0*	16-145	0	30				
bis(2-Chloroethyl)ether	73	108	50-130	39*	30				
1,3-Dichlorobenzene	69	70	39-122	1	30				
1,2-Dichlorobenzene	67	69	43-119	2	30				
Hexachloroethane	68	69	25-132	1	30				
Nitrobenzene	67	69	50-131	2	30				
Isophorone	63	67	38-133	6	30				

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Lancaster Laboratories
Where quality is a science

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 02/28/02 at 07:34 AM

Group Number: 795083

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	70	74	58-132	6	30				
Naphthalene	101	106	43-133	3	30				
Hexachlorobutadiene	71	73	44-130	3	30				
Hexachlorocyclopentadiene	48	44	5-176	8	30				
2-Chloronaphthalene	0*	23*	56-124	200*	30				
Acenaphthylene	53*	58*	60-125	10	30				
Dimethylphthalate	37*	38*	63-123	0	30				
2,6-Dinitrotoluene	30*	32*	63-122	6	30				
Fluorene	55	56	52-130	1	30				
4-Chlorophenyl-phenylether	47*	46*	60-120	1	30				
Diethylphthalate	45*	45*	65-124	0	30				
N-Nitrosodiphenylamine	86	99	48-136	14	30				
4-Bromophenyl-phenylether	70	77	62-124	10	30				
Hexachlorobenzene	75	77	54-133	2	30				
Phenanthrene	73	78	37-140	6	30				
Anthracene	68	74	49-129	9	30				
Di-n-butylphthalate	65	71	55-132	8	30				
Fluoranthene	60	66	37-135	9	30				
Butylbenzylphthalate	62	70	56-145	13	30				
Benzo(a)anthracene	72	81	40-141	11	30				
Chrysene	69	66	39-143	4	30				
3,3'-Dichlorobenzidine	42	50	3-123	16	30				
bis(2-Ethylhexyl)phthalate	145*	146*	56-141	0	30				
Di-n-octylphthalate	70	76	53-144	8	30				
Benzo(b)fluoranthene	64	67	39-137	5	30				
Benzo(k)fluoranthene	67	74	45-136	9	30				
Benzo(a)pyrene	62	65	40-143	4	30				
Indeno(1,2,3-cd)pyrene	65	68	26-151	5	30				
Dibenz(a,h)anthracene	69	74	35-159	7	30				
Benzo(g,h,i)perylene	62	66	27-149	7	30				
2-Methylphenol	65	69	62-109	6	30				
2,2'-oxybis(1-Chloropropane)	90	95	50-145	5	30				
4-Methylphenol	66	71	60-115	7	30				
4-Chloroaniline	40	42	19-106	5	30				
2-Methylnaphthalene	68	75	57-114	8	30				
2,4,5-Trichlorophenol	106	73	53-132	37*	30				
2-Nitroaniline	36*	11*	71-128	108*	30				
3-Nitroaniline	28*	32*	33-117	12	30				
Dibenzofuran	166*	156*	48-129	2	30				
4-Nitroaniline	36	40	31-128	9	30				
Carbazole	64	70	61-118	9	30				
Batch number: 020360010A	Sample number(s): 3766313								
Gamma BHC - Lindane	0*	0*	43-154	0	50				
Heptachlor	0*	0*	70-138	0	50				
Aldrin	0*	0*	65-134	0	50				
p,p-DDT	0*	0*	62-166	0	50				
Dieldrin	0*	0*	68-139	0	50				
Endrin	0*	0*	48-188	0	50				
Methoxychlor	(2)	(2)	74-162	104*	50				
Alpha BHC	0*	0*	64-134	0	50				

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Where quality is a science

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 02/28/02 at 07:34 AM

Group Number: 795083

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beta BHC	0*	0*	31-176	0	50				
Delta BHC	0*	0*	29-191	0	50				
Heptachlor Epoxide	0*	0*	69-133	0	50				
p,p-DDE	0*	0*	48-175	0	50				
p,p-DDD	0*	0*	52-181	0	50				
Endosulfan I	0*	0*	62-133	0	50				
Endosulfan II	0*	0*	65-144	0	50				
Endosulfan Sulfate	0*	0*	65-154	0	50				
Endrin Aldehyde	0*	0*	63-125	0	50				
Batch number: 02036820003B	Sample number(s): 3766313								
Moisture						7.06	6.91	2	11
Batch number: 020515705002	Sample number(s): 3766314,3766316								
Arsenic	103	102	82-122	0	20	N.D.	N.D.	0 (1)	20
Selenium	103	101	75-125	2	20	0.0061 J	N.D.	200* (1)	20
Barium	98	96	75-125	1	20	0.513	0.463	10 (1)	20
Cadmium	97	97	78-121	1	20	0.00090 J	0.0014 J	43* (1)	20
Chromium	97	97	80-119	0	20	N.D.	0.0017 J	200* (1)	20
Lead	101	100	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	111	109	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 020515713002	Sample number(s): 3766314,3766316								
Mercury	108	102	80-120	6	20	N.D.	N.D.	0 (1)	20
Batch number: D020282AC	Sample number(s): 3766313								
Chloromethane	81	79	15-128	2	30				
Vinyl Chloride	82	81	16-141	0	30				
Bromomethane	86	87	24-140	1	30				
Chloroethane	84	85	33-147	1	30				
1,1-Dichloroethene	94	95	40-159	1	30				
Methylene Chloride	95	94	41-157	1	30				
trans-1,2-Dichloroethene	98	98	47-152	0	30				
1,1-Dichloroethane	95	95	51-147	0	30				
cis-1,2-Dichloroethene	101	97	53-146	4	30				
Chloroform	100	98	53-142	2	30				
1,1,1-Trichloroethane	99	95	41-153	3	30				
Carbon Tetrachloride	102	97	39-150	5	30				
Benzene	98	95	43-151	3	30				
1,2-Dichloroethane	99	96	59-144	3	30				
Trichloroethene	97	97	40-152	1	30				
1,2-Dichloropropane	92	93	55-138	1	30				
Bromodichloromethane	96	100	52-137	4	30				
Toluene	97	96	27-163	1	30				
1,1,2-Trichloroethane	95	91	51-149	4	30				
Dibromochloromethane	99	94	45-142	5	30				
Chlorobenzene	95	90	46-139	5	30				
Ethylbenzene	95	91	30-158	4	30				
Styrene	96	92	19-156	4	30				
Bromoform	101	97	27-145	4	30				

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 02/28/02 at 07:34 AM

Group Number: 795083

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2,2-Tetrachloroethane	90	87	23-180	3	30				
Acetone	87	83	10-202	4	30				
Carbon Disulfide	95	94	23-176	1	30				
2-Butanone	95	87	22-181	8	30				
trans-1,3-Dichloropropene	87	88	41-139	0	30				
cis-1,3-Dichloropropene	93	94	45-136	2	30				
4-Methyl-2-pentanone	103	97	31-154	6	30				
2-Hexanone	86	79	18-171	8	30				
Xylene (Total)	97	93	46-158	4	30				
Batch number: N020521AC	Sample number(s): 3766315,3766317								
Vinyl Chloride	119	128	54-133	7	30				
1,1-Dichloroethene	120	126	75-152	5	30				
Chloroform	111	114	76-138	3	30				
Carbon Tetrachloride	105	111	75-149	5	30				
Benzene	92	105	78-134	5	30				
1,2-Dichloroethane	123	129	75-141	5	30				
Trichloroethene	102	108	82-133	6	30				
Tetrachloroethene	86	93	81-148	8	30				
Chlorobenzene	(2)	(2)	81-125	5	30				
2-Butanone	98	100	56-141	2	30				
Batch number: R020321AA	Sample number(s): 3766313								
Tetrachloroethene	97	96	31-174	1	30				

Surrogate Quality Control

Analysis Name: Appendix IX Herbicides in Soil
Batch number: 020310015A

	2,4-Dichlorophenylacetic acid
3766313	65
Blank	77
LCS	83
MS	119
MSD	121
Limits:	39-192

Analysis Name: TCL SW846 Semivolatiles Soil
Batch number: 02035SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
3766313	87	82	89	84
Blank	103	99	103	86
LCS	98	91	104	90

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: DaimlerChrysler Corporation Group Number: 795083
Reported: 02/28/02 at 07:34 AM

Surrogate Quality Control

MS	66	63	66	61
MSD	72	67	67	67
Limits:	46-120	46-122	37-139	50-132

	2-Fluorobiphenyl	Terphenyl-d14
3766313	94	104
Blank	90	101
LCS	101	118
MS	58	71
MSD	61	83
Limits:	57-123	48-141

Analysis Name: TCL Pesticides in Solids
Batch number: 020360010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
3766313	87	227*
Blank	88	101
LCS	95	112
MS	0*	0*
MSD	0*	0*
Limits:	58-149	62-159

Analysis Name: TCL by 8260 (soil)
Batch number: D020282AC

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3766313	94	87	93	86
Blank	87	87	86	88
LCS	98	93	91	94
MS	97	92	93	92
MSD	96	87	96	89
Limits:	80-120	80-120	81-117	74-121

Analysis Name: TCLP by 8260
Batch number: N020521AC

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3766315	98	93	92	91
3766317	97	95	91	93
Blank	99	93	90	90
LCS	95	94	97	103
MS	94	93	94	100
MSD	95	92	95	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 8260 Master Scan (soil)
Batch number: R020321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Group Number: 795083
Reported: 02/28/02 at 07:34 AM

Surrogate Quality Control

Blank	102	103	98	96
LCS	104	104	102	102
MS	99	100	96	96
MSD	98	102	96	95
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

acct#10160 LL# 3166313-7

DAIMLERCHRYSLER

Chain-of-Custody

1904 B

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601
Phone Number: (717) 656-2300
Fax Number: (717) 656-2681

Project Name: Soils / SVE System Installation
Site Location: Dayton Thermal
Site Code: SC001
RFA Number: LBG02004
DaimlerChrysler PM: GARY STANCZUK

MAR - 1 2002

Consultant: LBG
Address: 1210 West County Rd E., Ste 700
St. Paul, MN 55112
Consultant PM: Ken Vogel
Phone: 651 490-1405 Fax: 651 490-1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	Volatiles 8260/TCLP2	Semi Volatiles/PCBs/Hg.1 ~~DRO~~/Metals/Moisture	Reactivity	pH, corrosivity, ignitability, moisture	pesticides, herbicides	TCLP NVE (extract + hold)	TCLP ZHE (extract + hold)			Remarks
Rolloff Bldg. 50	1.29.02	1410	C	S	8	X	X	X	X	X	X	X			analyses deleted +
															added to match RFA
															in celdm per Dave
															Strand on 1/30 + 1/31/02.
															KAKlinefelter
															1/31/02

Sampler(s): Kevin McCarty

Cooler ID #

Samples Relinquished under Airbill No. 790289087823

Temperature (corrected) 2.0 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	1.29.02	1600				Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by: [signature]	1/30/02	0900	Custody Seal Intact? Yes No

Is RFA sampling complete? Yes No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

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EPA Region 5 Records Ctr.
350133

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2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Ken Vogel

Company: 10160 885 320 Mr. Ken VogDAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Kathy Klinefelter Ext 1566

Message:

Rolloff Bldg 50
TCLP analytical

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: TL3766314 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected: 01/29/02

Rolloff_Bldg._50 Composite Soil Sample TCLP NVE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
0259	Mercury	N.D.	0.00002	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, December, 1994). A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

==========

1335	Arsenic	N.D.	0.0053	mg/l
1336	Selenium	0.0061 J	0.0043	mg/l
1746	Barium	0.513	0.00042	mg/l
1749	Cadmium	0.00090J	0.00064	mg/l
1751	Chromium	N.D.	0.0017	mg/l
1755	Lead	N.D.	0.0088	mg/l
1766	Silver	N.D.	0.0013	mg/l

Sample Number: TL3766315 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected: 01/29/02

Rolloff_Bldg._50 Composite Soil Sample TCLP ZHE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
3636	TCLP by 8260			

he sample was analyzed after the 14-day holding time had expired, as per

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: TL3766315 Account: 10160 DAIMLERCHRYSLER CORPORATION

client request.
==========

The volatile organic analyses were performed on a zero headspace toxicity characteristic leachate of the submitted waste. The leachate was prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, 12/94).
If the TCLP extract contains any one of the Toxicity Characteristic (TC) constituents in an amount equal to or exceeding the concentrations specified in 40 CFR Part 261.24, the waste possesses the characteristic of toxicity and is a hazardous waste. These limits are listed below in mg/L. Other limits may apply for analyses performed under other regulations.

Benzene	0.5	1,1-Dichloroethene	0.7
Carbon Tetrachloride	0.5	Methyl Ethyl Ketone (2-Butanone)	200.0
Chlorobenzene	100.0	Tetrachloroethene	0.7
Chloroform	6.0	Trichloroethene	0.5
1,2-Dichloroethane	0.5	Vinyl Chloride	0.2

==========

5386	Vinyl Chloride	N.D.	0.020	mg/l
5390	1,1-Dichloroethene	N.D.	0.020	mg/l
6305	2-Butanone	N.D.	0.060	mg/l
5396	Chloroform	N.D.	0.020	mg/l
5399	Carbon Tetrachloride	N.D.	0.020	mg/l
5401	Benzene	N.D.	0.020	mg/l
5402	1,2-Dichloroethane	N.D.	0.020	mg/l
5403	Trichloroethene	N.D.	0.020	mg/l
5409	Tetrachloroethene	N.D.	0.020	mg/l
5413	Chlorobenzene	N.D.	0.020	mg/l

==========

Sample Number: TL3766316 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected:

TCLP_NVE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
0259	Mercury	N.D.	0.00002	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3,

ecember, 1994). A sample is considered to have failed the Toxicity

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: TL3766316 Account: 10160 DAIMLERCHRYSLER CORPORATION

Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

==========

1335	Arsenic	N.D.	0.0053	mg/l
1336	Selenium	N.D.	0.0043	mg/l
1746	Barium	0.0017 J	0.00042	mg/l
1749	Cadmium	N.D.	0.00064	mg/l
1751	Chromium	N.D.	0.0017	mg/l
1755	Lead	N.D.	0.0088	mg/l
1766	Silver	N.D.	0.0013	mg/l

Sample Number: TL3766317 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected:

TCLP_ZHE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
3636	TCLP by 8260			

The sample was analyzed after the 14-day holding time had expired, as per client request.

==========

The volatile organic analyses were performed on a zero headspace toxicity characteristic leachate of the submitted waste. The leachate was prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, 12/94).
If the TCLP extract contains any one of the Toxicity Characteristic (TC) constituents in an amount equal to or exceeding the concentrations specified in 40 CFR Part 261.24, the waste possesses the characteristic of toxicity and is a hazardous waste. These limits are listed below in mg/L. Other limits may apply for analyses performed under other regulations.

Benzene	0.5	1,1-Dichloroethene	0.7
Carbon Tetrachloride	0.5	Methyl Ethyl Ketone (2-Butanone)	200.0
Chlorobenzene	100.0	Tetrachloroethene	0.7
Chloroform	6.0	Trichloroethene	0.5
1,2-Dichloroethane	0.5	Vinyl Chloride	0.2

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: TL3766317 Account: 10160 DAIMLERCHRYSLER CORPORATION

5386	Vinyl Chloride	N.D.		0.020	mg/l
5390	1,1-Dichloroethene	N.D.		0.020	mg/l
6305	2-Butanone	N.D.		0.060	mg/l
5396	Chloroform	N.D.		0.020	mg/l
5399	Carbon Tetrachloride	N.D.		0.020	mg/l
5401	Benzene	N.D.		0.020	mg/l
5402	1,2-Dichloroethane	N.D.		0.020	mg/l
5403	Trichloroethene	N.D.		0.020	mg/l
5409	Tetrachloroethene	0.066	J	0.020	mg/l
5413	Chlorobenzene	N.D.		0.020	mg/l

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Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Ken Vogel

Company: 10160 885 884 Mr. Ken VogDAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Kathy Klinefelter Ext 1566

Message:

LBG02004
Bldg 50 SVE Soils Ballofb
Partial
PCB's / Pests

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3766313 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected: 01/29/02

Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

		AS RECEIVED					DRY WEIGHT		
	ANALYSIS NAME	RESULT		METHOD DETECTION LIMIT	UNITS		RESULT		METHOD DETECTION LIMIT
1225	TCL Pesticides in Solids								

DCB surrogate recovery is outside the QC limits due to the dilution required for analysis of the sample.

Accurate spike recoveries could not be determined for the MS/MSD due to the dilution required for analysis.

The associated LCS data is within the QC specifications with the exception of Endrin Aldehyde. Recovery for Endrin Aldehyde is high enough to ensure no adverse effect on the validity of the data. The data is reported at the client's request.

==========

1981	Alpha BHC	N.D.		3.4	ug/kg		N.D.		3.9
1982	Beta BHC	N.D.		3.4	ug/kg		N.D.		3.9
1983	Delta BHC	N.D.		3.4	ug/kg		N.D.		3.9
1218	Gamma BHC - Lindane	N.D.		3.4	ug/kg		N.D.		3.9
1219	Heptachlor	N.D.		3.4	ug/kg		N.D.		3.9
1220	Aldrin	N.D.		3.4	ug/kg		N.D.		3.9
1984	Heptachlor Epoxide	N.D.		3.4	ug/kg		N.D.		3.9
1989	Endosulfan I	N.D.		3.4	ug/kg		N.D.		3.9
1222	Dieldrin	9.4	J	6.6	ug/kg		11.	J	7.5
1985	p,p-DDE	N.D.		6.6	ug/kg		N.D.		7.5
1223	Endrin	N.D.		6.6	ug/kg		N.D.		7.5
1990	Endosulfan II	N.D.		6.6	ug/kg		N.D.		7.5
1986	p,p-DDD	N.D.		12.	ug/kg		N.D.		14.
1991	Endosulfan Sulfate	N.D.		6.6	ug/kg		N.D.		7.5
1221	p,p-DDT	N.D.		10.	ug/kg		N.D.		11.
3017	Endrin Ketone	N.D.		6.6	ug/kg		N.D.		7.5
1859	Methoxychlor	N.D.		80.	ug/kg		N.D.		91.
3025	Alpha Chlordane	N.D.		3.4	ug/kg		N.D.		3.9
3026	Gamma Chlordane	7.8	J	3.4	ug/kg		8.9	J	3.9
1988	Toxaphene	N.D.		220.	ug/kg		N.D.		250.
1992	Endrin Aldehyde	N.D.		12.	ug/kg		N.D.		14.

1993	PCB-1016	N.D.		82.	ug/kg	N.D.	93.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3766313 Account: 10160 DAIMLERCHRYSLER CORPORATION

1994	PCB-1221	N.D.		130.	ug/kg	N.D.		150.
1995	PCB-1232	N.D.		70.	ug/kg	N.D.		80.
1996	PCB-1242	N.D.		160.	ug/kg	N.D.		180.
1997	PCB-1248	N.D.		66.	ug/kg	N.D.		75.
1998	PCB-1254	300.	J	66.	ug/kg	340.	J	75.
1999	PCB-1260	N.D.		66.	ug/kg	N.D.		75.

==========

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2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Dave Strand

Company: 10160 885 228 Mr. Dave DAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Kathy Klinefelter Ext 1566

Message:

RFA CB502004
Bldg 50 SVE Soils
Rolloff

Partial fax
Missing PCB's/Pests.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3766313 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected: 01/29/02

Rolloff_Bldg._50 Composite Soil Sample
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

		AS RECEIVED			DRY WEIGHT	
	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS	RESULT	METHOD DETECTION LIMIT
0111	Moisture	12.2	0.50	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The result reported above is on an as-received basis.

==========

0159	Mercury	0.20	0.0025	mg/kg	0.23	0.0028
0394	pH	8.75	0.010			

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

==========

0496	Corrosivity	See Below	See Below

Corrosivity:
The pH of a 1:1 slurry (with deionized water) was 8.75 indicating that the waste is not corrosive.
A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.

==========

0542	Ignitability	See Below	See Below

The sample did not spontaneously ignite when exposed to air or water.
The sample did not ignite by friction.
The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.

==========

1121	Reactivity	See Below	See Below

Reactivity:
The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were

. stablished by the Solid Waste Branch of EPA, July, 1992. These results

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3766313 Account: 10160 DAIMLERCHRYSLER CORPORATION

do not reflect total cyanide or total sulfide.

==========

1122	Sulfide (Reactivity)	N.D.		20.	mg/kg				
1123	Cyanide (Reactivity)	N.D.		99.	mg/kg				
1625	Thallium	1.5	J	0.84	mg/kg	1.7	J	0.96
1644	Antimony	N.D.		0.64	mg/kg	N.D.		0.73
1647	Beryllium	0.46	J	0.019	mg/kg	0.52	J	0.021
1649	Cadmium	0.35	J	0.054	mg/kg	0.40	J	0.062
1651	Chromium	14.9		0.14	mg/kg	17.0		0.16
1653	Copper	22.5		0.15	mg/kg	25.6		0.17
1655	Lead	36.0		0.81	mg/kg	41.1		0.92
1661	Nickel	11.8		0.20	mg/kg	13.4		0.23
1666	Silver	N.D.		0.14	mg/kg	N.D.		0.16
1672	Zinc	59.7		0.33	mg/kg	67.9		0.37
1863	Appendix IX Herbicides in Soil							
4174	2,4-D	N.D.		3.3	ug/kg	N.D.		3.8
4175	Dinoseb	N.D.		1.7	ug/kg	N.D.		1.9
4176	2,4,5-TP	0.46	J	0.33	ug/kg	0.53	J	0.38
4177	2,4,5-T	0.46	J	0.33	ug/kg	0.52	J	0.38

==========

4688	TCL SW846 Semivolatiles Soil					
1185	Phenol	N.D.	67.	ug/kg	N.D.	76.
3753	bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	N.D.	38.
1186	2-Chlorophenol	N.D.	33.	ug/kg	N.D.	38.
3754	1,3-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	38.
1187	1,4-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	38.
3755	1,2-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	38.
4690	2-Methylphenol	N.D.	33.	ug/kg	N.D.	38.
4691	2,2'-oxybis(1-Chloropropane)	N.D.	33.	ug/kg	N.D.	38.
4692	4-Methylphenol	N.D.	67.	ug/kg	N.D.	76.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

==========

1188	N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	N.D.	38.
3757	Hexachloroethane	N.D.	33.	ug/kg	N.D.	38.
3758	Nitrobenzene	N.D.	33.	ug/kg	N.D.	38.
3759	Isophorone	N.D.	33.	ug/kg	N.D.	38.
3746	2-Nitrophenol	N.D.	67.	ug/kg	N.D.	76.
3747	2,4-Dimethylphenol	N.D.	67.	ug/kg	N.D.	76.
3760	bis(2-Chloroethoxy)methane	N.D.	67.	ug/kg	N.D.	76.
3748	2,4-Dichlorophenol	N.D.	67.	ug/kg	N.D.	76.
1189	1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	N.D.	38.
3761	Naphthalene	N.D.	33.	ug/kg	N.D.	38.
4693	4-Chloroaniline	N.D.	33.	ug/kg	N.D.	38.
3762	Hexachlorobutadiene	N.D.	67.	ug/kg	N.D.	76.

1190	4-Chloro-3-methylphenol	N.D.	67.	ug/kg	N.D.	76.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3766313 Account: 10160 DAIMLERCHRYSLER CORPORATION

4694	2-Methylnaphthalene	N.D.		33.	ug/kg	N.D.		38.
3763	Hexachlorocyclopentadiene	N.D.		170.	ug/kg	N.D.		190.
3749	2,4,6-Trichlorophenol	N.D.		67.	ug/kg	N.D.		76.
4695	2,4,5-Trichlorophenol	N.D.		67.	ug/kg	N.D.		76.
3764	2-Chloronaphthalene	N.D.		33.	ug/kg	N.D.		38.
4696	2-Nitroaniline	N.D.		33.	ug/kg	N.D.		38.
3766	Dimethylphthalate	N.D.		67.	ug/kg	N.D.		76.
3765	Acenaphthylene	N.D.		33.	ug/kg	N.D.		38.

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4689	TCL SW846 Semivolatiles/Soil							
4697	3-Nitroaniline	N.D.		67.	ug/kg	N.D.		76.
1191	Acenaphthene	54.	J	33.	ug/kg	61.	J	38.
3750	2,4-Dinitrophenol	N.D.		670.	ug/kg	N.D.		760.
1192	4-Nitrophenol	N.D.		170.	ug/kg	N.D.		190.
4698	Dibenzofuran	N.D.		33.	ug/kg	N.D.		38.
1193	2,4-Dinitrotoluene	N.D.		67.	ug/kg	N.D.		76.
3767	2,6-Dinitrotoluene	N.D.		33.	ug/kg	N.D.		38.
3770	Diethylphthalate	N.D.		67.	ug/kg	N.D.		76.
3769	4-Chlorophenyl-phenylether	N.D.		33.	ug/kg	N.D.		38.
3768	Fluorene	90.	J	33.	ug/kg	100.	J	38.
4700	4-Nitroaniline	N.D.		67.	ug/kg	N.D.		76.
3751	4,6-Dinitro-2-methylphenol	N.D.		170.	ug/kg	N.D.		190.
3772	N-Nitrosodiphenylamine	N.D.		33.	ug/kg	N.D.		38.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine.
The result reported for N-nitrosodiphenylamine represents the combined
total of both compounds.

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3773	4-Bromophenyl-phenylether	N.D.		67.	ug/kg	N.D.		76.
3774	Hexachlorobenzene	N.D.		33.	ug/kg	N.D.		38.
1194	Pentachlorophenol	N.D.		170.	ug/kg	N.D.		190.
3775	Phenanthrene	980.		33.	ug/kg	1,100.		38.
3776	Anthracene	270.	J	33.	ug/kg	310.	J	38.
4702	Carbazole	87.	J	67.	ug/kg	99.	J	76.
3777	Di-n-butylphthalate	N.D.		67.	ug/kg	N.D.		76.
3778	Fluoranthene	2,200.		33.	ug/kg	2,500.		38.
1195	Pyrene	2,200.		33.	ug/kg	2,500.		38.
3780	Butylbenzylphthalate	N.D.		67.	ug/kg	N.D.		76.
3783	3,3'-Dichlorobenzidine	N.D.		67.	ug/kg	N.D.		76.
3781	Benzo(a)anthracene	1,300.		33.	ug/kg	1,500.		38.
3784	bis(2-Ethylhexyl)phthalate	86.	J	67.	ug/kg	98.	J	76.
3782	Chrysene	1,300.		33.	ug/kg	1,500.		38.
3785	Di-n-octylphthalate	N.D.		67.	ug/kg	N.D.		76.
3786	Benzo(b)fluoranthene	1,200.		33.	ug/kg	1,300.		38.
3787	Benzo(k)fluoranthene	570.		33.	ug/kg	650.		38.
3788	Benzo(a)pyrene	820.		33.	ug/kg	930.		38.
3789	Indeno(1,2,3-cd)pyrene	460.		33.	ug/kg	520.		38.
3790	Dibenz(a,h)anthracene	180.	J	33.	ug/kg	210.	J	38.

3791	Benzo(g,h,i)perylene	420.	33.	ug/kg	480.	38.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3766313 Account: 10160 DAIMLERCHRYSLER CORPORATION

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6292	TCL by 8260 (soil)						
5444	Chloromethane	N.D.		2.	ug/kg	N.D.	2.
5446	Bromomethane	N.D.		2.	ug/kg	N.D.	2.
5445	Vinyl Chloride	N.D.		1.	ug/kg	N.D.	1.
5447	Chloroethane	N.D.		2.	ug/kg	N.D.	2.
5450	Methylene Chloride	N.D.		2.	ug/kg	N.D.	2.
6293	Acetone	N.D.		7.	ug/kg	N.D.	8.
6294	Carbon Disulfide	N.D.		1.	ug/kg	N.D.	1.
5449	1,1-Dichloroethene	N.D.		1.	ug/kg	N.D.	1.
5452	1,1-Dichloroethane	N.D.		1.	ug/kg	N.D.	1.
5455	Chloroform	N.D.		1.	ug/kg	N.D.	1.
5461	1,2-Dichloroethane	N.D.		1.	ug/kg	N.D.	1.
6296	2-Butanone	N.D.		4.	ug/kg	N.D.	5.
5457	1,1,1-Trichloroethane	5.	J	1.	ug/kg	6.	J 1.
5458	Carbon Tetrachloride	N.D.		1.	ug/kg	N.D.	1.
5465	Bromodichloromethane	N.D.		1.	ug/kg	N.D.	1.
5480	1,1,2,2-Tetrachloroethane	N.D.		1.	ug/kg	N.D.	1.
5463	1,2-Dichloropropane	N.D.		1.	ug/kg	N.D.	1.
6297	trans-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.	1.
5462	Trichloroethene	5.		1.	ug/kg	6.	1.
5470	Dibromochloromethane	N.D.		1.	ug/kg	N.D.	1.
5467	1,1,2-Trichloroethane	N.D.		1.	ug/kg	N.D.	1.
5460	Benzene	N.D.		1.	ug/kg	N.D.	1.
6298	cis-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.	1.
5478	Bromoform	N.D.		1.	ug/kg	N.D.	1.
6299	4-Methyl-2-pentanone	N.D.		3.	ug/kg	N.D.	3.
6300	2-Hexanone	N.D.		3.	ug/kg	N.D.	3.
5468	Tetrachloroethene	4,200.		130.	ug/kg	4,800.	140.
5466	Toluene	N.D.		1.	ug/kg	N.D.	1.
5472	Chlorobenzene	N.D.		1.	ug/kg	N.D.	1.
5474	Ethylbenzene	N.D.		1.	ug/kg	N.D.	1.
5477	Styrene	N.D.		1.	ug/kg	N.D.	1.
6301	Xylene (Total)	N.D.		1.	ug/kg	N.D.	1.
5451	trans-1,2-Dichloroethene	N.D.		1.	ug/kg	N.D.	1.
5454	cis-1,2-Dichloroethene	N.D.		1.	ug/kg	N.D.	1.

==========

6935	Arsenic TR	6.7	0.38	mg/kg	7.7	0.43
6936	Selenium TR	N.D.	0.48	mg/kg	N.D.	0.54

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: TL3766314 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected: 01/29/02

Rolloff_Bldg._50 Composite Soil Sample TCLP NVE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS

Sample Number: TL3766315 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected: 01/29/02

Rolloff_Bldg._50 Composite Soil Sample TCLP ZHE
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS

Sample Number: TL3766316 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected:

TCLP_NVE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: TL3766317 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/30/02 Date Reported: NOT REP
Date Collected:

TCLP_ZHE_Tumbler_Blank
Site Code: SC001 RFA#: LBG02004
Dayton Thermal, Bldg 50 SVE/Dayton, OH

ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS

TABLE 5

RECOMMENDED BEST MANAGEMENT PRACTICES
DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

Area ID.	Pollutant Sources	Recommended BMPS
1	Asphalt Parking Lot Loading/Unloading Area Roof Runoff Dust Collector Metal Scrap Trash and Recycle Dumpsters Storm water Sump Discharged to Lawn	Sweep regularly. Use a drain blocker over storm grate while loading/unloading. Install a vacuum or an interlock system for unloading the dust collector. Minimize metal scrap and raise it off the ground and cover it. Cover dumpsters and make watertight. Inspect area weekly and cleanup. Use signs to educate personnel about storm water. Regularly inspect equipment and perform maintenance.
2	Asphalt Parking Lot Grass and Vegetation Roof Runoff (Onto Lawn)	Sweep regularly. Evaluate for erosion and revegetate promptly.
3	Asphalt Parking Lot Grass and Vegetation Roof Runoff (Onto Lawn) Trash and Recycle Dumpsters	Sweep regularly. Evaluate for erosion and revegetate promptly. Raise storm water grate to grade. Inspect weekly and cleanup. Cover dumpsters and make watertight.
4	Roof Runoff (Onto Lawn) Sidewalk Grass and Vegetation	Evaluate for erosion and revegetate promptly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products. Evaluate for erosion and revegetate promptly.
5	Roof Runoff (Onto Lawn) Sidewalk Grass and Vegetation	Evaluate for erosion and revegetate promptly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products. Evaluate for erosion and revegetate promptly.
6	Roof Runoff (Onto Lawn) Sidewalk Grass and Vegetation	Evaluate for erosion and revegetate promptly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products. Evaluate for erosion and revegetate promptly.
7	Asphalt Parking Lot Grass and Vegetation	Sweep regularly. Evaluate for erosion and revegetate promptly.
8	Asphalt Parking Lot Grass and Vegetation	Sweep regularly. Evaluate for erosion and revegetate promptly.
9	Roof Runoff (Onto Lawn) Sidewalk Grass and Vegetation	Evaluate for erosion and revegetate promptly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products. Maintain grassy swale and remove debris when present. Evaluate for erosion and revegetate promptly.

TABLE 5 (Continued)

RECOMMENDED BEST MANAGEMENT PRACTICES
DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

Area ID.	Pollutant Sources	Recommended BMPS
10	Asphalt Parking Lot Grass and Vegetation Roof Runoff (Onto Lawn)	Sweep regularly. Evaluate for erosion and revegetate promptly. Evaluate for erosion and revegetate promptly.
11	Asphalt Parking Lot Loading/Unloading Area Roof Runoff to Storm Drain Dust Collector Metal Scrap/Wood Containers/Boxes Trash Compactor	Sweep regularly. Use drain blocker over storm grate while loading/unloading. Install a vacuum or an interlock system for unloading the dust collector. Minimize metal scrap and materials. Raise off the ground and cover. Use more trash compactors when possible. Use signs to educate personnel about storm water. Any observed leak or spill will be contained, cleaned up and responded to promptly.
12	Asphalt Parking Lot Grass and Vegetation Roof Runoff (Onto Lawn)	Sweep regularly. Adjust deicer usage in accordance with activities. Sweep residual salts in the Spring. Consider use of calcium chloride or nonsalt products. Evaluate and revegetate promptly.
13	Asphalt Parking Lot Grass and Vegetation	Sweep regularly. Evaluate and revegetate promptly. Maintain storm water grate at grade.
14	Asphalt Parking Lot Grass and Vegetation Roof Runoff (Onto Lawn) Recessed Loading/Unloading Sump Discharge to Grass	Sweep regularly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider usage of calcium chloride or nonsalt products. Evaluate for erosion and revegetate promptly. Evaluate for erosion and revegetate promptly. Use drain blocker over storm grate while loading/unloading.
15	Asphalt Parking Areas Roof Runoff Drum Storage Metal Storage Area Compressor Discharge	Sweep regularly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products. Maintain a containment for the drums in this area and inspect regularly. Cover the drum storage area. Keep drums covered and bungs closed. Inspect the gravel to prevent blockage of or entry into the storm grate. Use a hydrophobic absorbent mat in a drip pan to collect compressor discharge and change mat daily. Dispose of mat appropriately in accordance with the regulations. Any observed leak or spill will be contained, cleaned up and responded to promptly.

TABLE 5 (Continued)

RECOMMENDED BEST MANAGEMENT PRACTICES
DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

Area ID.	Pollutant Sources	Recommended BMPS
16	Compressor Discharge	Use a hydrophobic absorbent mat in a drip pan to collect compressor discharge and change mat daily. Dispose of mat appropriately in accordance with the regulations.
	Gravel Storage Area	Inspect the gravel to prevent blockage of or entry into the storm grate.
	Asphalt Parking and	Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products.
		Use a drain blocker over storm grate while loading/unloading.
	Loading/Unloading Area	Any observed leak or spill will be contained, cleaned up and responded to promptly.
17	Asphalt Parking Lot	Sweep area regularly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products.
	Roof Runoff (Onto Lawn)	
	Loading/Unloading Outdoor Storage	Use drain blocker over storm grate while loading/unloading
		Minimize products and raise off the ground and cover. Store as much as possible indoors.
		Use signs to educate personnel about storm water.
		Any observed leak or spill will be contained, cleaned up and responded to promptly.
	Grass and Vegetation	Evaluate for erosion and revegetate promptly.
18	Grass and Vegetation	Maintain grassy swale and remove debris when present.
	Dust Collector	Install a vacuum or an interlock system for unloading the dust collector.
	Storage Area	Minimize products and raise it off the ground and cover it. Store as much as possible indoors.
	Sump Discharge	
19	Asphalt Parking Lot	Sweep area regularly. Adjust deicer usage in accordance with activities. Sweep residual salts in Spring. Consider use of calcium chloride or nonsalt products.
	Grass and Vegetation	Maintain grassy swale and remove debris when present.
	Roof Runoff (Onto Lawn)	
	Dust Collectors and Dumpsters	Install a vacuum or an interlock system for unloading the dust collector. Inspect weekly and cleanup.
		Use signs to educate personnel about storm water.

EPA Region 5 Records Ctr.
350134

MAY -4 2001

KEMRON ENVIRONMENTAL SERVICES

AFFIDAVIT ON BEHALF OF CERTIFIED LABORATORY

I, ***David L. Bumgarner***, being duly sworn on oath, state that, to the best of my knowledge, information, and belief:

1. I am authorized to submit this affidavit on behalf of ***KEMRON Environmental Services, Inc.***, which has been engaged as a Certified Laboratory for purposes of a voluntary action pursuant to Ohio's Voluntary Action Program.

2. The voluntary action is being conducted at ***Dayton Thermal Products,*** located at Dayton, OH.

3. ***KEMRON Environmental Services, Inc.*** was a Certified Laboratory pursuant to Ohio Revised Code (ORC) Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300 when it performed the analyses for the purpose of conducting or completing the voluntary action.

4. All of the analyses performed by ***KEMRON Environmental Services, Inc.*** for purposes of conducting or completing the voluntary action complied with the applicable requirements of ORC Chapter 3746 and rules adopted under OAC Chapter 3745-300.

5. The following information, data, documents, and/or reports, attached hereto, are being submitted with this affidavit (attach additional pages if more space is needed):

L0103230
L0103391
L0104002
L0104141

6. All of the information, data, documents, and/or reports submitted with this affidavit are true, accurate, and complete.

7. ***KEMRON Environmental Services, Inc.*** has no conflict of interest, as set forth in OAC rules 3745-300-04(I)(5) and 3745-300-05(F)(3), in performing the analyses referred to in this affidavit.

FURTHER AFFIANT SAYETH NOT.

David L. Bumgarner
(SIGNATURE)

Subscribed and sworn before me
this 2nd day of May, ~~2000~~ 2001

Dianna L. Rauch

NOTARIAL SEAL STATE OF OHIO

DIANNA L. RAUCH, Notary Public
In and For The State of Ohio
My Commission Expires March 8, 2005

MAY -4 2001

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103230
Report Date: 03/28/01
Work ID: SC001/DAYTON THERMAL
Date Received: 03/10/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103230-01	MW-34S/25'	L0103230-02	MW-33S/18'
L0103230-03	MW-38S/28'		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0103230

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 03/16/01 on HPMS-6 yielded % recoveries for trans-1,2-dichloroethene, 1,1-dichloroethane, 1,1-dichloropropene, benzene, trichloroethene and 1,2-dichloropropane that were below the lower advisory limits.

The LCS analyzed on 03/20/01 on HPMS-6 yielded a % recovery for 1,1-dichloropropene that was below the lower advisory limit. All other acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: Sample fraction 01 required a dilution analysis in order to obtain results within the linear range of the instrument. All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: CMS REVIEWED: Stephanie L Lyse DATE: 3/28/01

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/06/01 09:05

% Solid: 93
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	93		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: D1
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/01 Time: 13:56

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24936.D

Method: 8260B\5035
Run ID: R118127
Batch : WG94167

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	31	J	540	5
71-43-2	Benzene	ug/kg		ND	27	5
108-86-1	Bromobenzene	ug/kg		ND	27	5
74-97-5	Bromochloromethane	ug/kg		ND	27	5
75-27-4	Bromodichloromethane	ug/kg		ND	27	5
75-25-2	Bromoform	ug/kg		ND	27	5
74-83-9	Bromomethane	ug/kg		ND	54	5
78-93-3	2-Butanone	ug/kg		ND	540	5
104-51-8	n-Butylbenzene	ug/kg		ND	27	5
135-98-8	sec-Butylbenzene	ug/kg		ND	27	5
98-06-6	tert-Butylbenzene	ug/kg		ND	27	5
75-15-0	Carbon disulfide	ug/kg		ND	27	5
56-23-5	Carbon tetrachloride	ug/kg		ND	27	5
108-90-7	Chlorobenzene	ug/kg	1.4	J	27	5
124-48-1	Chlorodibromomethane	ug/kg		ND	27	5
75-00-3	Chloroethane	ug/kg		ND	54	5
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	54	5
67-66-3	Chloroform	ug/kg		ND	27	5
74-87-3	Chloromethane	ug/kg		ND	54	5
95-49-8	2-Chlorotoluene	ug/kg		ND	27	5
106-43-4	4-Chlorotoluene	ug/kg		ND	27	5
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	27	5
106-93-4	1,2-Dibromoethane	ug/kg		ND	27	5
74-95-3	Dibromomethane	ug/kg		ND	27	5
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	27	5
541-73-1	1,3-Dichlorobenzene	ug/kg	1.9	J	27	5
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	27	5
75-71-8	Dichlorodifluoromethane	ug/kg		ND	54	5
75-34-3	1,1-Dichloroethane	ug/kg		ND	27	5
107-06-2	1,2-Dichloroethane	ug/kg		ND	27	5
75-35-4	1,1-Dichloroethene	ug/kg		ND	27	5
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	27	5
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	27	5
78-87-5	1,2-Dichloropropane	ug/kg		ND	27	5
142-28-9	1,3-Dichloropropane	ug/kg		ND	27	5
594-20-7	2,2-Dichloropropane	ug/kg		ND	27	5
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	27	5
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	27	5
563-58-6	1,1-Dichloropropene	ug/kg		ND	27	5

RL = Reporting Limit

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: D1
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/01 Time: 13:56

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24936.D

Method: 8260B\5035
Run ID: R118127
Batch : WG94167

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	2.7	J	27	5
110-54-3	n-Hexane	ug/kg		ND	54	5
591-78-6	2-Hexanone	ug/kg		ND	54	5
87-68-3	Hexachlorobutadiene	ug/kg		ND	27	5
98-82-8	Isopropylbenzene	ug/kg		ND	27	5
99-87-6	p-Isopropyltoluene	ug/kg	1.6	J	27	5
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	54	5
75-09-2	Methylene chloride	ug/kg		ND	27	5
91-20-3	Naphthalene	ug/kg		ND	54	5
103-65-1	n-Propylbenzene	ug/kg		ND	27	5
100-42-5	Styrene	ug/kg		ND	27	5
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	27	5
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	27	5
127-18-4	Tetrachloroethene	ug/kg		ND	27	5
108-88-3	Toluene	ug/kg	3.8	J	27	5
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	27	5
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	27	5
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	27	5
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	27	5
79-01-6	Trichloroethene	ug/kg	95		27	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	54	5
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	27	5
95-63-6	1,2,4-Trimethylbenzene	ug/kg	3.0	J	27	5
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	27	5
108-05-4	Vinyl acetate	ug/kg		ND	54	5
75-01-4	Vinyl chloride	ug/kg		ND	11	5
95-47-6	o-Xylene	ug/kg	1.5	J	27	5
108-38-3	m-Xylene	ug/kg	2.5	Z,J	27	5
106-42-3	p-Xylene	ug/kg		Z	27	5

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.2	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	108	(65 - 135%)
4-Bromofluorobenzene	123	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:09

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24888.D

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	4.5	J	110	1
71-43-2	Benzene	ug/kg	0.66	J	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
74-97-5	Bromochloromethane	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene	ug/kg		ND	5.4	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.4	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.4	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.4	1
74-95-3	Dibromomethane	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	1.6	J	5.4	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.4	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:09

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24888.D

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	1.3	J	5.4	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.4	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.4	1
108-88-3	Toluene	ug/kg	4.2	J	5.4	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.4	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.4	1
79-01-6	Trichloroethene	ug/kg	260	I	5.4	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.59	J	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg	0.81	J	5.4	1
108-38-3	m-Xylene	ug/kg	1.5	Z	5.4	1
106-42-3	p-Xylene	ug/kg		Z	5.4	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.0	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	111	(65 - 135%)
4-Bromofluorobenzene	118	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/07/01 13:10

% Solid: 95
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	95		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/07/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24889

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg	0.53	J	5.3	1
108-86-1	Bromobenzene	ug/kg		ND	5.3	1
74-97-5	Bromochloromethane	ug/kg		ND	5.3	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.3	1
75-25-2	Bromoform	ug/kg		ND	5.3	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.3	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.3	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.3	1
75-15-0	Carbon disulfide	ug/kg		ND	5.3	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.3	1
108-90-7	Chlorobenzene	ug/kg		ND	5.3	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.3	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.3	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.3	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.3	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.3	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.3	1
74-95-3	Dibromomethane	ug/kg		ND	5.3	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.3	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.3	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.3	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.3	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.3	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.3	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	3.7	J	5.3	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.3	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.3	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.3	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.3	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.3	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.3	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/07/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24889

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	0.38	J	5.3	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.3	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.3	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.3	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.3	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.3	1
100-42-5	Styrene	ug/kg		ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.3	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.3	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.3	1
108-88-3	Toluene	ug/kg	1.8	J	5.3	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.3	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.3	1
71-55-6	1,1,1-Trichloroethane	ug/kg	1.4	J	5.3	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.3	1
79-01-6	Trichloroethene	ug/kg	210		5.3	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.3	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.3	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.3	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.1	1
95-47-6	o-Xylene	ug/kg		ND	5.3	1
108-38-3	m-Xylene	ug/kg	0.49	J	5.3	1
106-42-3	p-Xylene	ug/kg		J	5.3	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.7	(65 - 135%)
1,2-Dichloroethane-d4	104	(52 - 149%)
Toluene-d8	110	(65 - 135%)
4-Bromofluorobenzene	122	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/09/01 09:15

% Solid: 93
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	93		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/09/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 18:17

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24890

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
74-97-5	Bromochloromethane	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene	ug/kg		ND	5.4	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.4	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.4	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.4	1
74-95-3	Dibromomethane	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	4.8	J	5.4	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.4	1

RL = Reporting Limit

Login #L0103230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/09/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 18:17

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24890

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.4	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.4	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.4	1
108-88-3	Toluene	ug/kg	0.55	J	5.4	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.4	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.4	1
79-01-6	Trichloroethene	ug/kg	150		5.4	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.25	J	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.4	1
108-38-3	m-Xylene	ug/kg		ND	5.4	1
106-42-3	p-Xylene	ug/kg		ND	5.4	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	96.4	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	112	(65 - 135%)
4-Bromofluorobenzene	119	(65 - 135%)

RL = Reporting Limit

Order #: 01-03-230
March 28, 2001 02:07 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG94010	R117955	L0103230-01		Soil	Volatile Organics	8260B\5035	06-MAR-2001	Volatile - GC/MS
WG94010	R117955	L0103230-02		Soil	Volatile Organics	8260B\5035	07-MAR-2001	Volatile - GC/MS
WG94010	R117955	L0103230-03		Soil	Volatile Organics	8260B\5035	09-MAR-2001	Volatile - GC/MS
WG94062	R117880	L0103230-01		Soil	Percent Solids	D2216-90	06-MAR-2001	Conventionals
WG94062	R117880	L0103230-02		Soil	Percent Solids	D2216-90	07-MAR-2001	Conventionals
WG94062	R117880	L0103230-03		Soil	Percent Solids	D2216-90	09-MAR-2001	Conventionals
WG94167	R118127	L0103230-01	D1	Soil	Volatile Organics	8260B\5035	06-MAR-2001	Volatile - GC/MS

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/12/2001

ABW - ANGELA B. WIGAL
ADB - AMANDA D. BREEDLOVE
ADH - ANGELA D. HURST
AJF - AMANDA J. FICKIESEN
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BJM - BARRY J. MYERS
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DCU - DAVID C. UNDERWOOD
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LBM - LAWRENCE B. MCSWEGAN
LKN - LINDA K. NEDEFF
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
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MDG - MELISSA D. GRIMES
MEF - MIKE E. FLANAGAN
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MMB - MAREN M. BEERY
MRR - MICHELLE R. RAUCH
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

***** Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

Kemron Environmental Services -OVL

Volatile Quality Control Summary - 8260

Workgroup:	WG94010	Run Date:	3/16/2001	Sample Number:	03-212-06	LCS DF:	1
Method:	8260B	Instrument:	HPMS6	Sample Filename:	6M24880.D	Sample DF:	1
Matrix:	Soil	Blank Filename:	6M24878.D	MS Filename:	6M24881.D	MS DF:	1
Units:	ug/kg	LCS Filename:	6M24879.D	MSD Filename:	6M24882.D	MSD DF:	1

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0.76	ND	17.75	ND	20.83	20.29	20.0	ND	88.8	ND	104.2	101.5	19.0	175.0	2.6	43.0					
chloromethane	0.62	ND	14.60	ND	18.48	16.88	20.0	ND	73.0	ND	92.4	84.4	54.0	144.0	9.0	25.0					
vinyl chloride	1.06	ND	16.90	ND	20.26	18.94	20.0	ND	84.5	ND	101.3	94.7	67.0	141.0	6.7	26.0					
bromomethane	0.95	ND	19.10	ND	20.99	20.10	20.0	ND	95.5	ND	105.0	100.5	67.0	143.0	4.3	27.0					
chloroethane	1.42	ND	17.14	ND	19.61	19.00	20.0	ND	85.7	ND	98.1	95.0	71.0	135.0	3.2	24.0					
trichlorofluoromethane	1.48	ND	16.91	ND	19.85	18.97	20.0	ND	84.6	ND	99.3	94.9	68.0	151.0	4.5	24.0					
acetone	3.90	ND	17.28	5.61	16.46	20.84	20.0	ND	86.4	5.61	54.3	76.2	70.0	161.0	23.5	51.0			L		
1,1-dichloroethene	0.90	ND	17.09	ND	19.30	18.94	20.0	ND	85.5	ND	96.5	94.7	83.0	133.0	1.9	16.0					
iodomethane	0.72	ND	15.89	ND	18.86	19.28	20.0	ND	79.5	ND	94.3	96.4	NA	NA	2.2	NA					
methylene chloride	0.61	ND	17.63	2.59	22.40	20.99	20.0	ND	88.2	2.59	99.1	92.0	70.0	130.0	6.5	17.0					
carbon disulfide	0.68	ND	14.37	ND	16.89	16.58	20.0	ND	71.9	ND	84.5	82.9	65.0	135.0	1.9	19.0					
methyl-tert-butyl ether	0.77	ND	14.98	ND	16.06	14.86	20.0	ND	74.9	ND	80.3	74.3	NA	NA	7.8	NA					
trans-1,2-dichloroethene	0.42	ND	16.01	ND	18.91	18.16	20.0	ND	80.1	ND	94.6	90.8	81.0	145.0	4.0	15.0		L			
n-hexane	2.68	ND	19.68	ND	23.91	19.02	20.0	ND	98.4	ND	119.6	95.1	28.0	172.0	22.8	45.0					
vinyl acetate	4.68	ND	7.31	ND	6.27	6.42	20.0	ND	36.6	ND	31.4	32.1	10.0	156.0	2.4	155					
1,1-dichloroethane	0.50	ND	16.60	ND	18.85	18.38	20.0	ND	83.0	ND	94.3	91.9	86.0	126.0	2.5	16.0		L			
2-butanone	3.62	ND	16.07	ND	15.45	16.30	20.0	ND	80.4	ND	77.3	81.5	39.0	159.0	5.4	47.0					
2,2-dichloropropane	0.59	ND	16.15	ND	18.37	17.55	20.0	ND	80.8	ND	91.9	87.8	70.0	134.0	4.6	20.0					
cis-1,2-dichloroethene	0.43	ND	16.25	ND	18.89	18.13	20.0	ND	81.3	ND	94.5	90.7	78.0	129.0	4.1	16.0					
chloroform	0.49	ND	17.12	ND	19.25	19.00	20.0	ND	85.6	ND	96.3	95.0	81.0	126.0	1.3	15.0					
bromochloromethane	0.69	ND	16.24	ND	18.45	18.07	20.0	ND	81.2	ND	92.3	90.4	81.0	129.0	2.1	15.0					
1,1,1-trichloroethane	0.72	ND	16.53	ND	19.28	18.38	20.0	ND	82.7	ND	96.4	91.9	77.0	130.0	4.8	17.0					
1,1-dichloropropene	0.56	ND	14.54	ND	17.23	16.49	20.0	ND	72.7	ND	86.2	82.5	92.0	136.0	4.4	15.0		L	L	L	
carbon tetrachloride	0.57	ND	16.60	ND	19.56	18.86	20.0	ND	83.0	ND	97.8	94.3	76.0	132.0	3.6	19.0					
1,2-dichloroethane	0.58	ND	17.68	ND	19.29	18.78	20.0	ND	88.4	ND	96.5	93.9	78.0	128.0	2.7	16.0					
benzene	0.44	ND	15.94	ND	18.43	17.62	20.0	ND	79.7	ND	92.2	88.1	86.0	122.0	4.5	15.0		L			
trichloroethene	0.62	ND	14.89	ND	17.75	17.12	20.0	ND	74.5	ND	88.8	85.6	84.0	125.0	3.6	15.0		L			
1,2-dichloropropane	0.51	ND	14.89	ND	17.27	16.95	20.0	ND	74.5	ND	86.4	84.8	83.0	125.0	1.9	15.0		L			
bromodichloromethane	0.49	ND	17.14	ND	18.87	18.74	20.0	ND	85.7	ND	94.4	93.7	80.0	130.0	0.7	15.0					
dibromomethane	0.62	ND	17.42	ND	18.94	18.00	20.0	ND	87.1	ND	94.7	90.0	80.0	127.0	5.1	15.0					
2-chloroethylvinyl ether	2.57	ND	17.71	ND	18.31	18.61	20.0	ND	88.6	ND	91.6	93.1	50.0	154.0	1.6	15.0					
4-methyl-2-pentanone	3.96	ND	17.01	ND	16.35	17.49	20.0	ND	85.1	ND	81.8	87.5	48.0	158.0	6.7	42.0					
cis-1,3-dichloropropene	0.47	ND	17.10	ND	19.08	18.28	20.0	ND	85.5	ND	95.4	91.4	85.0	127.0	4.3	15.0					
toluene	0.50	ND	18.71	ND	21.49	21.00	20.0	ND	93.6	ND	107.5	105.0	85.0	123.0	2.3	15.0					
trans-1,3-dichloropropene	0.58	ND	18.44	ND	20.90	20.14	20.0	ND	92.2	ND	104.5	100.7	82.0	124.0	3.7	15.0					
1,1,2-trichloroethane	0.59	ND	17.56	ND	18.86	18.68	20.0	ND	87.8	ND	94.3	93.4	82.0	126.0	1.0	16.0					
2-hexanone	4.20	ND	16.93	ND	16.24	16.79	20.0	ND	84.7	ND	81.2	84.0	38.0	130.0	3.3	51.0					
1,3-dichloropropane	0.54	ND	17.29	ND	18.77	18.66	20.0	ND	86.5	ND	93.9	93.3	84.0	104.0	0.6	15.0					
tetrachloroethene	0.44	ND	17.37	ND	20.05	19.62	20.0	ND	86.9	ND	100.3	98.1	83.0	126.0	2.2	15.0					
dibromochloromethane	0.21	ND	18.26	ND	20.40	19.74	20.0	ND	91.3	ND	102.0	98.7	82.0	126.0	3.3	17.0					
1,2-dibromoethane	0.21	ND	17.72	ND	18.85	18.48	20.0	ND	88.6	ND	94.3	92.4	81.0	128.0	2.0	17.0					
1-chlorohexane	0.44	ND	16.33	ND	19.14	17.93	20.0	ND	81.7	ND	95.7	89.7	60.0	140.0	6.5	NA					
chlorobenzene	0.24	ND	18.57	ND	21.13	20.55	20.0	ND	92.9	ND	105.7	102.8	86.0	125.0	2.8	15.0					
1,1,1,2-tetrachloroethane	0.29	ND	19.17	ND	21.64	21.32	20.0	ND	95.9	ND	108.2	106.6	83.0	127.0	1.5	15.0					
ethylbenzene	0.26	ND	18.26	ND	21.33	20.74	20.0	ND	91.3	ND	106.7	103.7	86.0	127.0	2.8	15.0					
m+p-xylene	0.46	ND	37.05	ND	42.97	41.09	40.0	ND	92.6	ND	107.4	102.7	86.0	123.0	4.5	15.0					
o-xylene	0.23	ND	19.70	ND	21.73	21.55	20.0	ND	98.5	ND	108.7	107.8	87.0	124.0	0.8	15.0					
styrene	0.23	ND	18.97	ND	21.19	20.67	20.0	ND	94.9	ND	106.0	103.4	83.0	124.0	2.5	15.0					
bromoform	0.25	ND	19.61	ND	20.95	20.27	20.0	ND	98.1	ND	104.8	101.4	64.0	132.0	3.3	24.0					
isopropylbenzene	0.36	ND	18.62	ND	21.21	20.31	20.0	ND	93.1	ND	106.1	101.6	85.0	124.0	4.3	15.0					
1,1,2,2-tetrachloroethane	0.47	ND	18.06	ND	18.25	18.84	20.0	ND	90.3	ND	91.3	94.2	72.0	140.0	3.2	22.0					
1,2,3-trichloropropane	0.80	ND	18.84	ND	19.87	19.89	20.0	ND	94.2	ND	99.4	99.5	70.0	144.0	0.1	24.0					
propyl-benzene	0.28	ND	18.91	ND	21.91	21.36	20.0	ND	94.6	ND	109.6	106.8	84.0	126.0	2.5	15.0					
bromobenzene	0.24	ND	18.77	ND	20.97	20.92	20.0	ND	93.9	ND	104.9	104.6	85.0	121.0	0.2	15.0					
1,3,5-trimethylbenzene	0.30	ND	18.88	ND	21.79	21.16	20.0	ND	94.4	ND	109.0	105.8	86.0	124.0	2.9	15.0					
2-chlorotoluene	0.41	ND	18.33	ND	21.46	20.67	20.0	ND	91.7	ND	107.3	103.4	81.0	127.0	3.8	15.0					
4-chlorotoluene	0.25	ND	20.17	ND	22.54	22.46	20.0	ND	100.9	ND	112.7	112.3	84.0	125.0	0.4	15.0					
tert-butyl-benzene	0.31	ND	18.27	ND	21.23	20.95	20.0	ND	91.4	ND	106.2	104.8	83.0	125.0	1.3	15.0					
1,2,4-trimethylbenzene	0.22	0.25	18.98	0.26	21.51	21.23	20.0	0.25	94.9	0.3	106.3	104.9	87.0	124.0	1.3	18.0					
sec-butyl-benzene	0.29	ND	17.89	ND	20.86	20.24	20.0	ND	89.5	ND	104.3	101.2	83.0	126.0	3.0	15.0					
p-isopropyl-toluene	0.24	ND	18.06	ND	20.86	20.22	20.0	ND	90.3	ND	104.3	101.1	83.0	122.0	3.1	15.0					
1,3-dichlorobenzene	0.29	ND	19.06	ND	21.29	20.90	20.0	ND	95.3	ND	106.5	104.5	85.0	121.0	1.8	15.0					
1,4-dichlorobenzene	0.27	ND	18.79	0.34	20.93	20.60	20.0	ND	94.0	0.3	103.0	101.3	84.0	119.0	1.6	15.0					
n-butyl-benzene	0.27	ND	19.39	ND	22.25	21.23	20.0	ND	97.0	ND	111.3	106.2	81.0	128.0	4.7	15.0					
1,2-dichlorobenzene	0.22	ND	19.16	ND	21.13	20.79	20.0	ND	95.8	ND	105.7	104.0	86.0	123.0	1.6	15.0					
1,2-dibromo-3-chloropropane	0.75	ND	18.85	ND	18.61	18.25	20.0	ND	94.3	ND	93.1	91.3	51.0	151.0	2.0	38.0					
1,2,4-trichlorobenzene	0.47	ND	20.18	ND	21.32	20.46	20.0	ND	100.9	ND	106.6	102.3	74.0	126.0	4.1	26.0					
hexachlorobutadiene	0.34	ND	20.30	ND	22.81	21.23	20.0	ND	101.5	ND	114.1	106.2	73.0	131.0	7.2	46.0					
naphthalene	0.56	ND	19.27	0.59	19.05	18.72	20.0	ND	96.4	0.6	92.3	90.7	61.0	142.0	1.7	25.0					
1,2,3-trichlorobenzene	0.49	ND	20.89	ND	21.26	20.26	20.0	ND	104.5	ND	106.3	101.3	72.0	130.0	4.8	18.0					
Surrogates																					
dibromofluoromethane		47.40	47.28	48.29	47.76	47.46	50.0	94.8	94.6	96.6	95.5	94.9	80	120							
1,2-dichloroethane-d4		49.50	48.79	50.77	48.95	48.21	50.0	99.0	97.6	101.5	97.9	96.4	80	120							
toluene-d8		54.41	53.26	55.05	53.80	53.39	50.0	108.8	106.5	110.1	107.6	106.8	81	117							
p-bromofluorobenzene		57.91	57.10	59.33	57.79	58.19	50.0	115.8	114.2	118.7	115.6	116.4	74	121							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H= Above control limit
L=Below control limit
DF=Dilution Factor

Kemron Environmental Services -OVL

Volatile Quality Control Summary - 8260

Workgroup:	WG94167	Run Date: 3/20/2001	Sample Number: 03-393-03	LCS DF:	1
Method:	8260B	Instrument: HPMS6	Sample Filename: 6M24939.D	Sample DF:	1
Matrix:	Soil	Blank Filename: 6M24931.D	MS Filename: 6M24940.D	MS DF:	1
Units:	ug/kg	LCS Filename: 6M24932.D	MSD Filename: 6M24941.D	MSD DF:	1

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0.76	ND	20 96	ND	22.94	26.99	20.0	ND	104.8	ND	114.7	135.0	19.0	175 0	16.2	43.0					
chloromethane	0.62	ND	18.32	ND	19.85	22.30	20.0	ND	91.6	ND	99.3	111.5	54 0	144.0	11.6	25.0					
vinyl chloride	1.06	ND	20.51	ND	22.65	27.17	20.0	ND	102.6	ND	113.3	135.9	67.0	141.0	18.1	26.0					
bromomethane	0.95	ND	23.71	ND	24.19	25.15	20.0	ND	118.6	ND	121.0	125.8	67 0	143.0	3 9	27.0					
chloroethane	1.42	ND	20.29	ND	22.05	24.63	20.0	ND	101.5	ND	110.3	123 2	71.0	135.0	11.1	24.0					
trichlorofluoromethane	1.48	ND	20 56	ND	23.10	26.73	20 0	ND	102.8	ND	115.5	133.7	68.0	151.0	14.6	24.0					
acetone	3.90	ND	15.46	ND	18.90	15.08	20.0	ND	77.3	ND	94.5	75.4	70.0	161.0	22.5	51.0					
1,1-dichloroethene	0 90	ND	19.14	ND	21.58	25.02	20.0	ND	95.7	ND	107.9	125.1	83 0	133.0	14.8	16.0					
iodomethane	0.72	ND	14.06	ND	15.53	15.91	20.0	ND	70.3	ND	77.7	79.6	NA	NA	2.4	NA					
methylene chloride	0.61	ND	18.10	ND	18.22	19.74	20.0	ND	90.5	ND	91.1	98.7	70.0	130.0	8.0	17.0					
carbon disulfide	0 68	ND	16.44	ND	20.07	17.25	20.0	ND	82.2	ND	100.4	86.3	65.0	135.0	15.1	19.0					
methyl-tert-butyl ether	0.77	ND	16.50	ND	13.29	11.81	20.0	ND	82.5	ND	66.5	59.1	NA	NA	11.8	NA					
trans-1,2-dichloroethene	0.42	ND	18.30	ND	19.56	22.35	20.0	ND	91.5	ND	97.8	111.8	81.0	145.0	13.3	15 0					
n-hexane	2.68	ND	18.67	ND	18.25	18.42	20.0	ND	93.4	ND	91.3	92.1	28 0	172.0	0.9	45.0					
vinyl acetate	4.68	ND	5.57	ND	5.56	4.39	20.0	ND	27.9	ND	27.8	22.0	10.0	156.0	23.5	155					
1,1-dichloroethane	0.50	ND	18.68	ND	20.07	22.10	20.0	ND	93.4	ND	100.4	110.5	86.0	126.0	9.6	16.0					
2-butanone	3.62	ND	15.16	ND	15 24	12.53	20.0	ND	75.8	ND	76.2	62.7	39.0	159.0	19.5	47.0					
2,2-dichloropropane	0.59	ND	18.12	ND	20.09	22.24	20.0	ND	90.6	ND	100.5	111.2	70.0	134.0	10.2	20 0					
cis-1,2-dichloroethene	0 43	ND	17.79	ND	18.88	20.31	20.0	ND	89.0	ND	94.4	101.6	78.0	129.0	7.3	16.0					
chloroform	0.49	ND	18.69	ND	19.57	21.31	20 0	ND	93.5	ND	97.9	106.6	81.0	126.0	8.5	15.0					
bromochloromethane	0.69	ND	17.85	ND	17.64	18.09	20.0	ND	89.3	ND	88.2	90.5	81 0	129.0	2 5	15.0					
1,1,1-trichloroethane	0 72	ND	18.81	ND	20.92	23.83	20.0	ND	94.1	ND	104.6	119.2	77 0	130.0	13.0	17.0					
1,1-dichloropropene	0.56	ND	16.91	ND	18.54	21.18	20.0	ND	84.6	ND	92.7	105.9	92.0	136 0	13.3	15.0		L			
carbon tetrachloride	0.57	ND	19 46	ND	21.63	24.91	20.0	ND	97.3	ND	108.2	124.6	76 0	132.0	14.1	19.0					
1,2-dichloroethane	0 58	ND	18.79	ND	18.37	19.21	20.0	ND	94.0	ND	91.9	96.1	78.0	128.0	4.5	16.0					
benzene	0.44	ND	17 82	ND	18.85	20.69	20.0	ND	89.1	ND	94.3	103.5	86.0	122.0	9.3	15.0					
trichloroethene	0.62	ND	17.29	ND	18.30	20.72	20.0	ND	86.5	ND	91.5	103 6	84.0	125.0	12.4	15.0					
1,2-dichloropropane	0.51	ND	16.62	ND	16.63	18.10	20.0	ND	83.1	ND	83.2	90.5	83 0	125.0	8.5	15.0					
bromodichloromethane	0.49	ND	18.05	ND	18.22	19.54	20.0	ND	90.3	ND	91.1	97.7	80.0	130.0	7.0	15.0					
dibromomethane	0 62	ND	17.98	ND	17.64	18.43	20.0	ND	89.9	ND	88.2	92 2	80 0	127.0	4.4	15 0					
2-chloroethylvinyl ether	2 57	ND	17.03	ND	18 61	14.95	20.0	ND	85.2	ND	93.1	74.8	50.0	154.0	21.8	15.0					H
4-methyl-2-pentanone	3 96	ND	16.62	ND	17.32	13.44	20.0	ND	83 1	ND	86.6	67.2	48 0	158 0	25.2	42.0					
cis-1,3-dichloropropene	0.47	ND	18.23	ND	17.93	19.25	20.0	ND	91.2	ND	89.7	96.3	85 0	127.0	7 1	15.0					
toluene	0 50	ND	20.49	ND	21.48	23.74	20.0	ND	102.5	ND	107.4	118 7	85 0	123 0	10.0	15.0					
trans-1,3-dichloropropene	0 58	ND	19.57	ND	18.60	19.81	20.0	ND	97.9	ND	93.0	99.1	82 0	124.0	6.3	15 0					
1,1,2-trichloroethane	0.59	ND	17.71	ND	17.17	17.76	20.0	ND	88.6	ND	85.9	88.8	82 0	126 0	3.4	16.0					
2-hexanone	4.20	ND	16.60	ND	16.17	12.63	20.0	ND	83.0	ND	80.9	63.2	38.0	130 0	24.6	51.0					
1,3-dichloropropane	0 54	ND	18.03	ND	17.38	17.97	20.0	ND	90.2	ND	86.9	89.9	84.0	104.0	3.3	15.0					
tetrachloroethene	0.44	ND	20.04	ND	21.09	24.37	20.0	ND	100.2	ND	105.5	121.9	83.0	126 0	14.4	15.0					
dibromochloromethane	0.21	ND	18.88	ND	18 14	19.04	20 0	ND	94.4	ND	90.7	95.2	82 0	126 0	4.8	17.0					
1,2-dibromoethane	0.21	ND	17 82	ND	16.95	17.54	20.0	ND	89.1	ND	84.8	87.7	81.0	128.0	3 4	17.0					
1-chlorohexane	0.44	ND	20 41	ND	18.75	18.82	20.0	ND	102.1	ND	93.8	94 1	60.0	140.0	0.4	NA					
chlorobenzene	0 24	ND	20.33	ND	20.43	22.24	20.0	ND	101.7	ND	102 2	111.2	86.0	125.0	8.5	15.0					
1,1,1,2-tetrachloroethane	0.29	ND	20.93	ND	20.96	22.96	20.0	ND	104.7	ND	104.8	114.8	83 0	127.0	9.1	15 0					
ethylbenzene	0.26	ND	20.28	ND	21.44	23.66	20.0	ND	101.4	ND	107.2	118 3	86.0	127.0	9.8	15.0					
m+p-xylene	0.46	ND	40 42	ND	41.98	46.38	40.0	ND	101.1	ND	105.0	116 0	86.0	123 0	10.0	15.0					
o-xylene	0 23	ND	20.66	ND	21 03	22.38	20.0	ND	103.3	ND	105.2	111 9	87.0	124.0	6.2	15 0					
styrene	0 23	ND	20.01	ND	20.13	21.12	20.0	ND	100.1	ND	100.7	105.6	83 0	124.0	4.8	15.0					
bromoform	0.25	ND	20.77	ND	19.75	19.80	20.0	ND	103.9	ND	98 8	99.0	64.0	132.0	0.3	24.0					
isopropylbenzene	0.30	ND	20.32	ND	21.63	23.99	20.0	ND	101.6	ND	108.2	120.0	85.0	124.0	10.3	15.0					
1,1,2,2-tetrachloroethane	0 47	ND	19.06	ND	17.14	18.23	20.0	ND	95.3	ND	85.7	91 2	72.0	140.0	6 2	22.0					
1,2,3-trichloropropane	0 80	ND	20.48	ND	17.77	18.91	20 0	ND	102.4	ND	88.9	94 6	70.0	144.0	6.2	24.0					
propyl-benzene	0 28	ND	21.54	ND	21.85	25.29	20.0	ND	107.7	ND	109.3	126 5	84.0	126.0	14.6	15.0				H	
bromobenzene	0.24	ND	20.62	ND	20.00	21.56	20.0	ND	103.1	ND	100.0	107.8	85 0	121.0	7.5	15.0					
1,3,5-trimethylbenzene	0.30	ND	20.95	ND	21.35	24 06	20.0	ND	104.8	ND	106.8	120.3	86.0	124.0	11.9	15.0					
2-chlorotoluene	0.41	ND	20 64	ND	21.10	22.86	20.0	ND	103.2	ND	105.5	114.3	81 0	127 0	8.0	15.0					
4-chlorotoluene	0 25	ND	21.93	ND	21.53	24.11	20.0	ND	109.7	ND	107.7	120.6	84.0	125.0	11.3	15 0					
tert-butyl-benzene	0.31	ND	21.04	ND	21.92	24.78	20.0	ND	105.2	ND	109.6	123.9	83.0	125.0	12.2	15.0					
1,2,4-trimethylbenzene	0 22	ND	20.97	ND	21.16	23.32	20.0	ND	104.9	ND	105.8	116.6	87 0	124.0	9.7	18.0					
sec-butyl-benzene	0 29	ND	20.58	ND	21.62	24.94	20.0	ND	102.9	ND	108.1	124.7	83.0	126 0	14.3	15.0					
p-isopropyl-toluene	0.24	ND	20 50	ND	21.10	24.05	20.0	ND	102.5	ND	105.5	120.3	83 0	122 0	13.1	15.0					
1,3-dichlorobenzene	0.29	ND	20 37	ND	19.77	21.46	20.0	ND	101.9	ND	98.9	107.3	85.0	121.0	8.2	15.0					
1,4-dichlorobenzene	0.27	ND	20.11	ND	19.33	20.87	20.0	ND	100.6	ND	96.7	104 4	84.0	119.0	7 7	15.0					
n-butyl-benzene	0.27	ND	21.76	ND	22.52	25.76	20 0	ND	108.8	ND	112.6	128.8	81.0	128.0	13.4	15 0				H	
1,2-dichlorobenzene	0 22	ND	20 38	ND	19.53	20.78	20.0	ND	101.9	ND	97.7	103.9	86.0	123 0	6.2	15.0					
1,2-dibromo-3-chloropropane	0.75	ND	19 44	ND	17.26	17.86	20.0	ND	97.2	ND	86.3	89.3	51 0	151 0	3.4	38.0					
1,2,4-trichlorobenzene	0.47	0.34	20.78	ND	18.09	19.83	20.0	0.34	103 9	ND	90.5	99 2	74 0	126.0	9.2	26.0					
hexachlorobutadiene	0.34	ND	21.66	ND	22 54	26.82	20.0	ND	108 3	ND	112.7	134 1	73.0	131.0	17.3	46 0				H	
naphthalene	0.56	0 64	19.13	ND	16 54	17.98	20.0	0.64	95.7	ND	82.7	89 9	61 0	142 0	8 3	25 0					
1,2,3-trichlorobenzene	0.49	ND	20.50	ND	18.04	19.81	20.0	ND	102 5	ND	90.2	99.1	72.0	130 0	9.4	18.0					
Surrogates																					
dibromofluoromethane		47.94	46.89	49.34	47.93	47 58	50.0	95.9	93.8	98.7	95.9	95.2	80	120							
1,2-dichloroethane-d4		51.02	48.92	53.10	50.65	50.27	50.0	102.0	97.8	106.2	101.3	100 5	80	120							
toluene-d8		53 97	53 04	54.18	53.03	52.62	50.0	107.9	106.1	108.4	106.1	105.2	81	117							
p-bromofluorobenzene		60.66	59.43	60.05	57.55	59 07	50.0	121.3	118.9	120.1	115 1	118.1	74	121		H					

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

CRF #3

KEMRON Environmental Services	SAMPLES RECEIPT FORM #1	Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
Compuchem BRG ARS Other _____	3-10-01	(✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

COOLER ID: Igloo	COOLER ID:	COOLER ID:
INDEX # : 815313875323	INDEX # :	INDEX # :
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP : (C) (D) 6 °C	TEMP : (C) (D) °C	TEMP : (C) (D) °C
TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER ( ) SOIL (✓) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) (✓) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

DAIMLERCHRYSLER — Chain-of-Custody

Offsite Drilling

№ 02118 A

~~CompuChem~~ Kemron
~~501 Madison Avenue~~ 109 Starlite Park
~~Cary, NC 27513~~ Marietta OH 45750
Phone Number: ~~(919) 379-4100~~ 740 373 4071
Fax Number: ~~(919) 379-4040~~

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St, Dayton OH 45414
Site Code: SC001
RFA Number: 4GQP2001207 SDG 207A
DaimlerChrysler PM: Gary Stanczuk

Consultant: LBG
Address: 1210 West County Road E
St Paul, MN 55112
Consultant PM: Kenneth D. Vogel
Phone: 651 490 1405 Fax: 1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
(14 calendar days)

Data ~~Package Deliverables~~: (circle)
(DaimlerChrysler Level 1)
DaimlerChrysler Level 2
CLP

Matrix Codes
S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed. - Sediment; O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOC 5030B/5035/8260B								Remarks
MW-34S 25 feet	3/6/01	0905	G	S	1	X								PID 57 ppm
MW-33S 18 feet	3/7/01	1310	G	S	1	X								PID 36 ppm
MW-38S 28 feet	3/9/01	0915	G	S	1	X								PID 19 ppm

Sampler(s): Dave Strand

Cooler ID #

Samples Relinquished under Airbill No.

Temperature (corrected) ____ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by: Renda Oregon	Date: 3/12/01	Time: 0830	Custody Seal Intact? Yes No

Is RFA sampling complete? Yes (No)

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

SDG 207A

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Sp rec'd 3/10/01. Stored in locked cooler over weekend
c/c sealed
Sp intact
cooler temp 6 (bg)

Page 1 of 1 (bg)

Revision No. 3
Created: July 9, 1999

KEMRON Internal Laboratory Chain of Custody

Work Order: L0103230 **Client:** Compuchem **# of Samples:** 3 **Due Date:** **Page:**

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
1-3	8260	ANAL	[illegible] 3-16-01 @ 1305	V-1	VOA	Brq	[illegible] 3-16-01 1315	Log IN	Brq	Storage
1-3	PCTS	test	[illegible] 3/16/1320	login	wet	Brq	[illegible] 3/16/1330	archive	Brq	archive
1	8260	reanal	[illegible] 3-18-01 @ 1650	Archive	VOA	Brq	CMS 3-29-01 @1410	archive	Brq	archive

APR -5 2001

TEST CERTIFICATE

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103230
Report Date: 03/28/01
Work ID: SC001/DAYTON THERMAL
Date Received: 03/10/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103230-01	MW-34S/25'	L0103230-02	MW-33S/18'
L0103230-03	MW-38S/28'		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

LBG/VOCEC

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/06/01 09:05

% Solid: 93
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	93		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: D1
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/01 Time: 13:56

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24936.D

Method: 8260B\5035
Run ID: R118127
Batch : WG94167

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	31	J	540	5
71-43-2	Benzene	ug/kg		ND	27	5
108-86-1	Bromobenzene	ug/kg		ND	27	5
74-97-5	Bromochloromethane	ug/kg		ND	27	5
75-27-4	Bromodichloromethane	ug/kg		ND	27	5
75-25-2	Bromoform	ug/kg		ND	27	5
74-83-9	Bromomethane	ug/kg		ND	54	5
78-93-3	2-Butanone	ug/kg		ND	540	5
104-51-8	n-Butylbenzene	ug/kg		ND	27	5
135-98-8	sec-Butylbenzene	ug/kg		ND	27	5
98-06-6	tert-Butylbenzene	ug/kg		ND	27	5
75-15-0	Carbon disulfide	ug/kg		ND	27	5
56-23-5	Carbon tetrachloride	ug/kg		ND	27	5
108-90-7	Chlorobenzene	ug/kg	1.4	J	27	5
124-48-1	Chlorodibromomethane	ug/kg		ND	27	5
75-00-3	Chloroethane	ug/kg		ND	54	5
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	54	5
67-66-3	Chloroform	ug/kg		ND	27	5
74-87-3	Chloromethane	ug/kg		ND	54	5
95-49-8	2-Chlorotoluene	ug/kg		ND	27	5
106-43-4	4-Chlorotoluene	ug/kg		ND	27	5
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	27	5
106-93-4	1,2-Dibromoethane	ug/kg		ND	27	5
74-95-3	Dibromomethane	ug/kg		ND	27	5
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	27	5
541-73-1	1,3-Dichlorobenzene	ug/kg	1.9	J	27	5
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	27	5
75-71-8	Dichlorodifluoromethane	ug/kg		ND	54	5
75-34-3	1,1-Dichloroethane	ug/kg		ND	27	5
107-06-2	1,2-Dichloroethane	ug/kg		ND	27	5
75-35-4	1,1-Dichloroethene	ug/kg		ND	27	5
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	27	5
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	27	5
78-87-5	1,2-Dichloropropane	ug/kg		ND	27	5
142-28-9	1,3-Dichloropropane	ug/kg		ND	27	5
594-20-7	2,2-Dichloropropane	ug/kg		ND	27	5
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	27	5
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	27	5
563-58-6	1,1-Dichloropropene	ug/kg		ND	27	5

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: D1
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/01 Time: 13:56

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24936.D

Method: 8260B\5035
Run ID: R118127
Batch : WG94167

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	2.7	J	27	5
110-54-3	n-Hexane	ug/kg		ND	54	5
591-78-6	2-Hexanone	ug/kg		ND	54	5
87-68-3	Hexachlorobutadiene	ug/kg		ND	27	5
98-82-8	Isopropylbenzene	ug/kg		ND	27	5
99-87-6	p-Isopropyltoluene	ug/kg	1.6	J	27	5
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	54	5
75-09-2	Methylene chloride	ug/kg		ND	27	5
91-20-3	Naphthalene	ug/kg		ND	54	5
103-65-1	n-Propylbenzene	ug/kg		ND	27	5
100-42-5	Styrene	ug/kg		ND	27	5
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	27	5
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	27	5
127-18-4	Tetrachloroethene	ug/kg		ND	27	5
108-88-3	Toluene	ug/kg	3.8	J	27	5
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	27	5
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	27	5
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	27	5
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	27	5
79-01-6	Trichloroethene	ug/kg	95		27	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	54	5
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	27	5
95-63-6	1,2,4-Trimethylbenzene	ug/kg	3.0	J	27	5
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	27	5
108-05-4	Vinyl acetate	ug/kg		ND	54	5
75-01-4	Vinyl chloride	ug/kg		ND	11	5
95-47-6	o-Xylene	ug/kg	1.5	J	27	5
108-38-3	m-Xylene	ug/kg	2.5	Z,J	27	5
106-42-3	p-Xylene	ug/kg		Z	27	5

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.2	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	108	(65 - 135%)
4-Bromofluorobenzene	123	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:09

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24888.D

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	4.5	J	110	1
71-43-2	Benzene	ug/kg	0.66	J	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
74-97-5	Bromochloromethane	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene	ug/kg		ND	5.4	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.4	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.4	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.4	1
74-95-3	Dibromomethane	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	1.6	J	5.4	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.4	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:09

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24888.D

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	1.3	J	5.4	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.4	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.4	1
108-88-3	Toluene	ug/kg	4.2	J	5.4	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.4	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.4	1
79-01-6	Trichloroethene	ug/kg	260	I	5.4	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.59	J	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg	0.81	J	5.4	1
108-38-3	m-Xylene	ug/kg	1.5	Z	5.4	1
106-42-3	p-Xylene	ug/kg		Z	5.4	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.0	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	111	(65 - 135%)
4-Bromofluorobenzene	118	(65 - 135%)

RL = Reporting limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/07/01 13:10

% Solid: 95
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	95		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/07/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24889

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg	0.53	J	5.3	1
108-86-1	Bromobenzene	ug/kg		ND	5.3	1
74-97-5	Bromochloromethane	ug/kg		ND	5.3	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.3	1
75-25-2	Bromoform	ug/kg		ND	5.3	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.3	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.3	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.3	1
75-15-0	Carbon disulfide	ug/kg		ND	5.3	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.3	1
108-90-7	Chlorobenzene	ug/kg		ND	5.3	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.3	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.3	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.3	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.3	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.3	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.3	1
74-95-3	Dibromomethane	ug/kg		ND	5.3	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.3	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.3	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.3	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.3	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.3	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.3	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	3.7	J	5.3	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.3	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.3	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.3	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.3	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.3	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.3	1

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/07/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24889

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	0.38	J	5.3	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.3	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.3	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.3	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.3	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.3	1
100-42-5	Styrene	ug/kg		ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.3	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.3	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.3	1
108-88-3	Toluene	ug/kg	1.8	J	5.3	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.3	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.3	1
71-55-6	1,1,1-Trichloroethane	ug/kg	1.4	J	5.3	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.3	1
79-01-6	Trichloroethene	ug/kg	210		5.3	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.3	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.3	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.3	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.1	1
95-47-6	o-Xylene	ug/kg		ND	5.3	1
108-38-3	m-Xylene	ug/kg	0.49	J	5.3	1
106-42-3	p-Xylene	ug/kg		J	5.3	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.7	(65 - 135%)
1,2-Dichloroethane-d4	104	(52 - 149%)
Toluene-d8	110	(65 - 135%)
4-Bromofluorobenzene	122	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/09/01 09:15

% Solid: 93
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	93		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/09/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 18:17

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24890

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
74-97-5	Bromochloromethane	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene	ug/kg		ND	5.4	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.4	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.4	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.4	1
74-95-3	Dibromomethane	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	4.8	J	5.4	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.4	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/09/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 18:17

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24890

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.4	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.4	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.4	1
108-88-3	Toluene	ug/kg	0.55	J	5.4	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.4	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.4	1
79-01-6	Trichloroethene	ug/kg	150		5.4	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.25	J	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.4	1
108-38-3	m-Xylene	ug/kg		ND	5.4	1
106-42-3	p-Xylene	ug/kg		ND	5.4	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	96.4	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	112	(65 - 135%)
4-Bromofluorobenzene	119	(65 - 135%)

RL = Reporting Limit

COMPUCHEM
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

Visit our web site –
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FAX

TO: KEN VOGEL
MIKE PLANT
FAX: (651) 490-1006
DATE: 4/4/01

FROM: CATHY DOVER
PHONE: (919) 379-4100
FAX: (919) 379-4050

PAGES WITH COVER: 12

COMMENTS:

RESULTS FOR MW-34S/25' } for RFA 207
MW-38S/28'
MW-33S/18'

HARDCOPY WILL BE SHIPPED TONIGHT.

Final Results

TEST CERTIFICATE

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103230
Report Date: 03/28/01
Work ID: SC001/DAYTON THERMAL
Date Received: 03/10/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103230-01	MW-34S/25'	L0103230-02	MW-33S/18'
L0103230-03	MW-38S/28'		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/06/01 09:05

% Solid: 93
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	93		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: D1
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/01 Time: 13:56

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24936.D

Method: 8260B\5035
Run ID: R118127
Batch : WG94167

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	31	J	540	5
71-43-2	Benzene	ug/kg		ND	27	5
108-86-1	Bromobenzene	ug/kg		ND	27	5
74-97-5	Bromochloromethane	ug/kg		ND	27	5
75-27-4	Bromodichloromethane	ug/kg		ND	27	5
75-25-2	Bromoform	ug/kg		ND	27	5
74-83-9	Bromomethane	ug/kg		ND	54	5
78-93-3	2-Butanone	ug/kg		ND	540	5
104-51-8	n-Butylbenzene	ug/kg		ND	27	5
135-98-8	sec-Butylbenzene	ug/kg		ND	27	5
98-06-6	tert-Butylbenzene	ug/kg		ND	27	5
75-15-0	Carbon disulfide	ug/kg		ND	27	5
56-23-5	Carbon tetrachloride	ug/kg		ND	27	5
108-90-7	Chlorobenzene	ug/kg	1.4	J	27	5
124-48-1	Chlorodibromomethane	ug/kg		ND	27	5
75-00-3	Chloroethane	ug/kg		ND	54	5
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	54	5
67-66-3	Chloroform	ug/kg		ND	27	5
74-87-3	Chloromethane	ug/kg		ND	54	5
95-49-8	2-Chlorotoluene	ug/kg		ND	27	5
106-43-4	4-Chlorotoluene	ug/kg		ND	27	5
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	27	5
106-93-4	1,2-Dibromoethane	ug/kg		ND	27	5
74-95-3	Dibromomethane	ug/kg		ND	27	5
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	27	5
541-73-1	1,3-Dichlorobenzene	ug/kg	1.9	J	27	5
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	27	5
75-71-8	Dichlorodifluoromethane	ug/kg		ND	54	5
75-34-3	1,1-Dichloroethane	ug/kg		ND	27	5
107-06-2	1,2-Dichloroethane	ug/kg		ND	27	5
75-35-4	1,1-Dichloroethene	ug/kg		ND	27	5
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	27	5
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	27	5
78-87-5	1,2-Dichloropropane	ug/kg		ND	27	5
142-28-9	1,3-Dichloropropane	ug/kg		ND	27	5
594-20-7	2,2-Dichloropropane	ug/kg		ND	27	5
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	27	5
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	27	5
563-58-6	1,1-Dichloropropene	ug/kg		ND	27	5

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: D1
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/01 Time: 13:56

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24936.D

Method: 8260B\5035
Run ID: R118127
Batch : WG94167

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	2.7	J	27	5
110-54-3	n-Hexane	ug/kg		ND	54	5
591-78-6	2-Hexanone	ug/kg		ND	54	5
87-68-3	Hexachlorobutadiene	ug/kg		ND	27	5
98-82-8	Isopropylbenzene	ug/kg		ND	27	5
99-87-6	p-Isopropyltoluene	ug/kg	1.6	J	27	5
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	54	5
75-09-2	Methylene chloride	ug/kg		ND	27	5
91-20-3	Naphthalene	ug/kg		ND	54	5
103-65-1	n-Propylbenzene	ug/kg		ND	27	5
100-42-5	Styrene	ug/kg		ND	27	5
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	27	5
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	27	5
127-18-4	Tetrachloroethene	ug/kg		ND	27	5
108-88-3	Toluene	ug/kg	3.8	J	27	5
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	27	5
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	27	5
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	27	5
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	27	5
79-01-6	Trichloroethene	ug/kg	95		27	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	54	5
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	27	5
95-63-6	1,2,4-Trimethylbenzene	ug/kg	3.0	J	27	5
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	27	5
108-05-4	Vinyl acetate	ug/kg		ND	54	5
75-01-4	Vinyl chloride	ug/kg		ND	11	5
95-47-6	o-Xylene	ug/kg	1.5	J	27	5
108-38-3	m-Xylene	ug/kg	2.5	Z,J	27	5
106-42-3	p-Xylene	ug/kg		Z	27	5

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.2	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	108	(65 - 135%)
4-Bromofluorobenzene	123	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:09

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M248B8.D

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	4.5	J	110	1
71-43-2	Benzene	ug/kg	0.66	J	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
74-97-5	Bromochloromethane	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene	ug/kg		ND	5.4	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.4	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.4	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.4	1
74-95-3	Dibromomethane	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	1.6	J	5.4	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.4	1

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-01
Client Sample ID: MW-34S/25'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/06/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:09

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24888.D

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	1.3	J	5.4	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.4	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.4	1
108-88-3	Toluene	ug/kg	4.2	J	5.4	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.4	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.4	1
79-01-6	Trichloroethene	ug/kg	260	I	5.4	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.59	J	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg	0.81	J	5.4	1
108-38-3	m-Xylene	ug/kg	1.5	Z	5.4	1
106-42-3	p-Xylene	ug/kg		Z	5.4	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.0	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	111	(65 - 135%)
4-Bromofluorobenzene	118	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/07/01 13:10

% Solid: 95
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	95		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/07/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24889

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg	0.53	J	5.3	1
108-86-1	Bromobenzene	ug/kg		ND	5.3	1
74-97-5	Bromochloromethane	ug/kg		ND	5.3	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.3	1
75-25-2	Bromoform	ug/kg		ND	5.3	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.3	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.3	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.3	1
75-15-0	Carbon disulfide	ug/kg		ND	5.3	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.3	1
108-90-7	Chlorobenzene	ug/kg		ND	5.3	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.3	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.3	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.3	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.3	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.3	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.3	1
74-95-3	Dibromomethane	ug/kg		ND	5.3	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.3	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.3	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.3	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.3	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.3	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.3	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	3.7	J	5.3	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.3	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.3	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.3	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.3	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.3	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.3	1

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-02
Client Sample ID: MW-33S/18'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/07/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 17:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24889

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	0.38	J	5.3	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.3	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.3	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.3	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.3	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.3	1
100-42-5	Styrene	ug/kg		ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.3	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.3	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.3	1
108-88-3	Toluene	ug/kg	1.8	J	5.3	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.3	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.3	1
71-55-6	1,1,1-Trichloroethane	ug/kg	1.4	J	5.3	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.3	1
79-01-6	Trichloroethene	ug/kg	210		5.3	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.3	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.3	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.3	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.1	1
95-47-6	o-Xylene	ug/kg		ND	5.3	1
108-38-3	m-Xylene	ug/kg	0.49	J	5.3	1
106-42-3	p-Xylene	ug/kg		J	5.3	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.7	(65 - 135%)
1,2-Dichloroethane-d4	104	(52 - 149%)
Toluene-d8	110	(65 - 135%)
4-Bromofluorobenzene	122	(65 - 135%)

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL

Matrix: Soil
Collected: 03/09/01 09:15

% Solid: 93
COC Info: 02118/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	93		1.0	1	N/A	DIH	03/16/01	11:30	D2216-90

RL = Reporting Limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/09/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 18:17

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24890

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
74-97-5	Bromochloromethane	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene	ug/kg		ND	5.4	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.4	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.4	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.4	1
74-95-3	Dibromomethane	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	4.8	J	5.4	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.4	1

RL = Reporting limit

Login #L0103230
March 28, 2001 03:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103230-03
Client Sample ID: MW-38S/28'
Site/Work ID: SC001/DAYTON THERMAL
Matrix: Soil

Dil. Type: N/A
COC Info: 02118/
Date Collected: 03/09/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/01 Time: 18:17

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M24890

Method: 8260B\5035
Run ID: R117955
Batch : WG94010

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.4	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.4	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.4	1
108-88-3	Toluene	ug/kg	0.55	J	5.4	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.4	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.4	1
79-01-6	Trichloroethene	ug/kg	150		5.4	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.25	J	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.4	1
108-38-3	m-Xylene	ug/kg		ND	5.4	1
106-42-3	p-Xylene	ug/kg		ND	5.4	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	96.4	(65 - 135%)
1,2-Dichloroethane-d4	102	(52 - 149%)
Toluene-d8	112	(65 - 135%)
4-Bromofluorobenzene	119	(65 - 135%)

RL = Reporting Limit

App ~~III~~ ~~IV~~ III

Drilling Soil Qual.

LBG/VOGEL

MAR 30 2001

KEMRON
ENVIRONMENTAL SERVICES

109 Starlite Park ▪ Marietta, OH 45750 ▪ Telephone (740) 373-4071 ▪ FAX (740) 373-4835

AFFIDAVIT ON BEHALF OF CERTIFIED LABORATORY

MW-365/18L

I, ***David L. Bumgarner,*** being duly sworn on oath, state that, to the best of my knowledge, information, and belief:

1. I am authorized to submit this affidavit on behalf of ***KEMRON Environmental Services, Inc.***, which has been engaged as a Certified Laboratory for purposes of a voluntary action pursuant to Ohio's Voluntary Action Program.

2. The voluntary action is being conducted at ***Dayton Thermal Products,*** *located at 1600 Webster Street, Dayton, OH.*

3. ***KEMRON Environmental Services, Inc.*** was a Certified Laboratory pursuant to Ohio Revised Code (ORC) Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300 when it performed the analyses for the purpose of conducting or completing the voluntary action.

4. All of the analyses performed by ***KEMRON Environmental Services, Inc.*** for purposes of conducting or completing the voluntary action complied with the applicable requirements of ORC Chapter 3746 and rules adopted under OAC Chapter 3745-300.

5. The following information, data, documents, and/or reports, attached hereto, are being submitted with this affidavit (attach additional pages if more space is needed):
KEMRON Report # **L0103301**

6. All of the information, data, documents, and/or reports submitted with this affidavit are true, accurate, and complete.

7. ***KEMRON Environmental Services, Inc.*** has no conflict of interest, as set forth in OAC rules 3745-300-04(I)(5) and 3745-300-05(F)(3), in performing the analyses referred to in this affidavit.

FURTHER AFFIANT SAYETH NOT.

David L. Bumgarner
(SIGNATURE)

Subscribed and sworn before me
this 27th day of March, 2001

Dianna L. Rauch

NOTARIAL SEAL STATE OF OHIO

DIANNA L. RAUCH, Notary Public
In and For The State of Ohio
My Commission Expires March 8, 2005

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103301
Report Date: 03/21/01
Work ID: SC001/OFFSITE DRILLING
Date Received: 03/14/01

MAR 30 2001

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103301-01	MW-36S/18'		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0103301

CHAIN OF CUSTODY:

The chain of custody number was 04632.

SHIPMENT CONDITIONS:

The chain of custody was received sealed in a cooler. The cooler temperature was 10° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Melissa Thomas DATE: 3·15·01

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0103301

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 03/19/01 yielded % recoveries for several compounds which were flagged as outliers. Most of these outliers were within +/- 20 % and were deemed acceptable by the laboratory. All other acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RSS REVIEWED: Stephanie L Lepe DATE: 3/23/01

Login #L0103301
March 21, 2001 04:15 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103301-01
Client Sample ID: MW-36S/18'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/12/01 13:50

% Solid: 96
COC Info: 04632/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	96		1.0	1	N/A	TMM	03/20/01	15:10	D2216-90

RL = Reporting Limit

Login #L0103301
March 21, 2001 04:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103301-01
Client Sample ID: MW-36S/18'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04632/
Date Collected: 03/12/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 96

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 16:00

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2358

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	100	1
71-43-2	Benzene	ug/kg		ND	5.2	1
108-86-1	Bromobenzene	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
75-25-2	Bromoform	ug/kg		ND	5.2	1
74-83-9	Bromomethane	ug/kg		ND	10	1
78-93-3	2-Butanone	ug/kg		ND	100	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.2	1
75-00-3	Chloroethane	ug/kg		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	10	1
67-66-3	Chloroform	ug/kg		ND	5.2	1
74-87-3	Chloromethane	ug/kg		ND	10	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1

RL = Reporting Limit

Login #L0103301
March 21, 2001 04:15 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103301-01
Client Sample ID: MW-36S/18'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04632/
Date Collected: 03/12/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 96

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 16:00

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2358

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
110-54-3	n-Hexane	ug/kg		ND	10	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.2	1
108-88-3	Toluene	ug/kg		ND	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg		ND	5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.31	J	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	2.1	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	99.0	(80 - 120%)
1,2-Dichloroethane-d4	102	(80 - 120%)
Toluene-d8	108	(81 - 117%)
4-Bromofluorobenzene	111	(74 - 121%)

RL = Reporting Limit

Order #: 01-03-301
March 21, 2001 04:15 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG94093	R118018	L0103301-01		Soil	Volatile Organics	8260B\5035	12-MAR-2001	Volatile - GC/MS
WG94212	R118202	L0103301-01		Soil	Percent Solids	D2216-90	12-MAR-2001	Conventionals

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/12/2001

ABW - ANGELA B. WIGAL
ADB - AMANDA D. BREEDLOVE
ADH - ANGELA D. HURST
AJF - AMANDA J. FICKIESEN
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BJM - BARRY J. MYERS
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DCU - DAVID C. UNDERWOOD
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LBM - LAWRENCE B. MCSWEGAN
LKN - LINDA K. NEDEFF
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MDG - MELISSA D. GRIMES
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
MLS - MICHAEL L. SCHIMMEL
MMB - MAREN M. BEERY
MRR - MICHELLE R. RAUCH
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

***** Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

Kemron
ENVIRONMENTAL SERVICES

ORGANIC QA/QC

Kemron Environmental Services -OVL

Volatile Quality Control Summary - 8260

Workgroup:	WG94093	Run Date:	3 19 01	Sample Number:	03327-01	LCS DF:	1
Method:	8260B	Instrument:	HPMS11	Sample Filename:	11M2364 D	Sample DF:	1
Matrix:	Soil	Blank Filename:	11M2356 D	MS Filename:	11M2365.D	MS DF:	1
Units:	ug kg	LCS Filename:	11M2357 D	MSD Filename:	11M2366 D	MSD DF:	1

		CONCENTRATION, ug kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug kg	ug kg	ug kg	ug kg	ug kg	ug kg	ug kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0 76	ND	16 94	ND	14 22	18.70	20 0	ND	84.7	ND	71 1	93 5	19.0	175 0	27 2	43 0					
chloromethane	0 62	ND	15 38	ND	15 89	20 02	20 0	ND	76.9	ND	79 5	100 1	54 0	144.0	23 0	25.0					
vinyl chloride	1 06	ND	17 61	ND	17 25	21 78	20 0	ND	88 1	ND	86 3	108 9	67.0	141 0	23 2	26 0					
bromomethane	0 95	ND	18 95	ND	17 98	22 76	20 0	ND	94 8	ND	89 9	113 8	67.0	143 0	23.5	27 0					
chloroethane	1 42	ND	17 29	ND	16 90	21 54	20 0	ND	86.5	ND	84 5	107.7	71.0	135 0	24 1	24 0					H
trichlorofluoromethane	1 48	ND	8 72	ND	8 63	14 51	20 0	ND	43.6	ND	43.2	72 6	68 0	151 0	50 8	24 0		L	L		H
acetone	3 90	ND	16 85	ND	30 85	50 33	20 0	ND	84 4	ND	154 3	251 7	70 0	161 0	48 0	51 0				H	
1,1-dichloroethene	0 90	ND	18 78	ND	14 53	17 69	20 0	ND	93 9	ND	72 7	88 5	83.0	133 0	19 6	16 0			L		H
iodomethane	0 72	ND	19 80	ND	17 95	24 85	20 0	ND	99 0	ND	89 8	124 3	NA	NA	32 2	NA					
methylene chloride	0 61	ND	17 91	ND	16 42	20 02	20 0	ND	89.6	ND	82 1	100 1	70 0	130 0	19 8	17 0					H
carbon disulfide	0 68	ND	17 47	ND	11 93	15 00	20 0	ND	87 4	ND	59 7	75 0	65 0	135 0	22 8	19 0			L		H
methyl-tert-butyl ether	0 77	ND	19 35	ND	18 23	19 66	20 0	ND	96 8	ND	91 2	98 3	NA	NA	7 5	NA					
trans-1,2-dichloroethene	0 42	ND	19 21	ND	14 18	17 72	20 0	ND	96 1	ND	70 9	88 6	81 0	145 0	22 2	15 0			L		H
n-hexane	2 68	ND	21 70	ND	10 01	8 51	20 0	ND	108 5	ND	50 1	42 6	28 0	172 0	16 2	45 0					
vinyl acetate	4 68	ND	7 91	ND	5 94	5 44	20 0	ND	39 6	ND	29 7	27 2	10 0	156 0	8 8	155					
1,1-dichloroethane	0 50	ND	19 57	ND	15 40	18 63	20 0	ND	97 9	ND	77 0	93 2	86 0	126 0	19 0	16 0			L		H
2-butanone	3 62	ND	18 20	ND	20 55	25 04	20 0	ND	91.0	ND	102 8	125 2	39 0	159 0	19 7	47 0					
2,2-dichloropropane	0 59	ND	17 65	ND	13 46	15.90	20 0	ND	88 3	ND	67.3	79 5	70 0	134 0	16 6	20 0			L		
cis-1,2-dichloroethene	0 43	ND	18 64	ND	14 45	17 13	20 0	ND	93 2	ND	72.3	85 7	78 0	129.0	17 0	16 0			L		H
chloroform	0 49	ND	19 00	ND	14 88	17.61	20 0	ND	95 0	ND	74 4	88 1	81 0	126 0	16 8	15 0			L		H
bromochloromethane	0 69	ND	18 13	ND	15 66	19 35	20 0	ND	90 7	ND	78 3	96 8	81 0	129.0	21.1	15 0			L		H
1,1,1-trichloroethane	0 72	ND	17 68	ND	12 81	14 93	20 0	ND	88 4	ND	64 1	74 7	77 0	130 0	15 3	17 0			L	L	
1,1-dichloropropene	0 56	ND	17 56	ND	11 43	13 42	20 0	ND	87.8	ND	57 2	67 1	92.0	136 0	16 0	15 0		L	L	L	H
carbon tetrachloride	0 57	ND	17 44	ND	10 75	12 41	20 0	ND	87.2	ND	53 8	62.1	76.0	132 0	14 3	19.0			L	L	
1,2-dichloroethane	0 58	ND	18 05	ND	16 16	18 92	20 0	ND	90 3	ND	80 8	94 6	78.0	128.0	15 7	16 0					
benzene	0 44	ND	18 15	ND	13 34	15 89	20 0	ND	90 8	ND	66 7	79.5	86 0	122.0	17 4	15 0			L	L	H
trichloroethene	0 62	ND	17 77	ND	11 35	13 38	20 0	ND	88.9	ND	56 8	66 9	84.0	125 0	16 4	15 0			L	L	H
1,2-dichloropropane	0 51	ND	17 72	ND	13 53	16 11	20 0	ND	88.6	ND	67 7	80 6	83 0	125 0	17.4	15 0			L	L	H
bromodichloromethane	0 49	ND	19 44	ND	14 58	17 56	20 0	ND	97.2	ND	72 9	87 8	80 0	130 0	18 5	15 0			L		H
dibromomethane	0 62	ND	18 89	ND	14.61	17 75	20 0	ND	94 5	ND	73 1	88 8	80 0	127 0	19 4	15 0			L		H
2-chloroethylvinyl ether	2 57	ND	16 41	ND	13 32	16 15	20 0	ND	82 1	ND	66 6	80 8	50 0	154 0	19 2	15 0					H
4-methyl-2-pentanone	3 96	ND	17 11	ND	19 55	18 37	20 0	ND	85 6	ND	97 8	91.9	48 0	158 0	6 2	42 0					
cis-1,3-dichloropropene	0 47	ND	17 64	ND	12 50	15 35	20 0	ND	88 2	ND	62 5	76 8	85 0	127 0	20 5	15 0			L	L	H
toluene	0 50	ND	15 97	ND	11 77	13 45	20 0	ND	90 4	ND	58 9	67 3	85 0	123 0	13 3	15 0			L	L	
trans-1,3-dichloropropene	0 55	ND	17 98	ND	13 05	14 83	20 0	ND	89 9	ND	65 3	74 2	82 0	124 0	12 8	15 0			L	L	
1,1,2-trichloroethane	0 59	ND	17 63	ND	13 26	14 91	20 0	ND	88 2	ND	66 3	74 6	82.0	126 0	11 7	16 0			L	L	
2-hexanone	4 20	ND	17 12	ND	15 52	16 75	20 0	ND	85 6	ND	77 6	83 8	38.0	130.0	7 6	51 0					
1,3-dichloropropane	0 54	ND	17 53	ND	13 45	15 01	20 0	ND	87 7	ND	67 3	75 1	84.0	104 0	11 0	15 0			L	L	
tetrachloroethene	0 44	ND	17 24	ND	9 45	9 90	20 0	ND	86 2	ND	47 3	49.5	83 0	126 0	4 7	15 0			L	L	
dibromochloromethane	0 21	ND	18 88	ND	12 63	14 68	20 0	ND	94 4	ND	63 2	73 4	82.0	126.0	15 0	17 0			L	L	
1,2-dibromoethane	0 21	ND	17 05	ND	12 58	14 37	20 0	ND	85.3	ND	62 9	71.9	81.0	128.0	13 3	17 0			L	L	
1-chlorohexane	0.44	ND	20 32	ND	8 29	8 24	20 0	ND	101.6	ND	41 5	41.2	60 0	140 0	0 6	NA			L	L	
chlorobenzene	0 24	ND	17 96	ND	10 35	11 81	20 0	ND	89 8	ND	51 8	59 1	86 0	125.0	13 2	15 0			L	L	
1,1,1,2-tetrachloroethane	0 29	ND	17 89	ND	10 48	11 90	20 0	ND	89.5	ND	52 4	59 5	83 0	127 0	12 7	15 0			L	L	
ethylbenzene	0 26	ND	17 80	ND	9 54	10 24	20 0	ND	89.0	ND	47 7	51 2	86 0	127 0	7 1	15 0			L	L	
m+p-xylene	0 46	ND	37 27	ND	18 09	20 42	40 0	ND	93.2	ND	45 2	51 1	86.0	123 0	12 1	15 0			L	L	
o-xylene	0 23	ND	18 47	ND	9 74	11 02	20 0	ND	92.4	ND	48 7	55 1	87.0	124 0	12 3	15 0			L	L	
styrene	0 23	ND	17 52	ND	9 14	10 87	20 0	ND	87 6	ND	45 7	54 4	83.0	124 0	17 3	15 0			L	L	H
bromoform	0 25	ND	16 94	ND	10 17	12 02	20 0	ND	84 7	ND	50 9	60 1	64.0	132 0	16 7	24 0			L	L	
isopropylbenzene	0 30	ND	17 00	ND	8 04	8 52	20 0	ND	85 0	ND	40 2	42 6	85 0	124 0	5 8	15 0			L	L	
1,1,2,2-tetrachloroethane	0 47	ND	15 96	ND	11 39	11 48	20 0	ND	79.8	ND	57 0	57 4	72 0	140 0	0.8	22 0			L	L	
1,2,3-trichloropropane	0 80	ND	15 78	ND	11 94	12.55	20 0	ND	78 9	ND	59 7	62 8	70.0	144 0	5 0	24 0			L	L	
propyl-benzene	0 28	ND	17 39	ND	8 40	8 22	20 0	ND	87 0	ND	42 0	41 1	84 0	126 0	2 2	15 0			L	L	
bromobenzene	0 24	ND	15 92	ND	8 76	9 43	20 0	ND	79 6	ND	43 8	47 2	85.0	121 0	7.4	15 0		L	L	L	
1,3,5-trimethylbenzene	0 30	ND	16 77	ND	7 89	7 78	20 0	ND	83 9	ND	39 5	38 9	86 0	124 0	1 4	15.0		L	L	L	
2-chlorotoluene	0 41	ND	17 04	ND	8 40	8 38	20 0	ND	85 2	ND	42 0	41 9	81 0	127.0	0 2	15 0			L	L	
4-chlorotoluene	0 25	ND	16 81	ND	8 25	8 29	20 0	ND	84 1	ND	41 3	41 5	84 0	125.0	0 5	15 0			L	L	
tert-butyl-benzene	0 31	ND	17 19	ND	8 06	7 86	20 0	ND	86.0	ND	40 3	39 3	83 0	125 0	2 5	15 0			L	L	
1,2,4-trimethylbenzene	0 22	ND	16 96	ND	7 79	7 79	20 0	ND	84 8	ND	39 0	39 0	87.0	124.0	0 0	18 0		L	L	L	
sec-butyl-benzene	0 29	ND	16 16	ND	7 26	6 98	20 0	ND	80 8	ND	36 3	34 9	83 0	126 0	3 9	15 0		L	L	L	
p-isopropyl-toluene	0 24	ND	15 73	ND	6 74	6 62	20 0	ND	78.7	ND	33 7	33 1	83 0	122 0	1 8	15 0		L	L	L	
1,3-dichlorobenzene	0 29	ND	16 19	ND	7 33	7 33	20 0	ND	81 0	ND	36 7	36 7	85 0	121 0	0 0	15 0		L	L	L	
1,4-dichlorobenzene	0 27	ND	16 57	ND	7 43	7 52	20 0	ND	82 9	ND	37 2	37 6	84 0	119 0	1.2	15 0		L	L	L	
n-butyl-benzene	0 27	ND	16 65	ND	6 69	6 61	20 0	ND	83 3	ND	33 5	33 1	81.0	128 0	1 2	15 0			L	L	
1,2-dichlorobenzene	0 22	ND	16 18	ND	7 43	7 33	20 0	ND	80 9	ND	37 2	36 7	86 0	123.0	1 4	15 0		L	L	L	
1,2-dibromo-3-chloropropane	0 75	ND	16 91	ND	8 34	9 71	20 0	ND	80 1	ND	41 7	48 6	51 0	151 0	15 2	38 0			L	L	
1,2,4-trichlorobenzene	0 47	ND	15 19	ND	4 70	4 38	20 0	ND	76 0	ND	23.5	21 9	74.0	126 0	7 0	26 0			L	L	
hexachlorobutadiene	0 34	ND	13 79	ND	4 53	4 32	20 0	ND	69 0	ND	22.7	21 6	73 0	131.0	4.7	46 0		L	L	L	
naphthalene	0 56	ND	14 85	ND	5 83	5 95	20 0	ND	74.3	ND	29 2	29.8	61.0	142 0	2.0	25 0			L	L	
1,2,3-trichlorobenzene	0 49	ND	14 50	ND	4 21	3 92	20 0	ND	72 5	ND	21 1	19 6	72 0	130 0	7 1	18 0			L	L	
Surrogates																					
dibromofluoromethane		49 24	50 63	54 45	46 29	49 79	50 0	98.5	101.3	109 0	92 6	99 6	80	120							
1,2-dichloroethane-d4		50 72	49 37	56 69	47 85	51 09	50 0	101 4	98.7	113 4	95.7	102 2	80	120							
toluene-d8		52 46	52 17	56 42	49 95	51 32	50 0	104 9	104 3	112 8	99 9	102 6	81	117							
p-bromofluorobenzene		56 08	53 86	59 12	52 83	51 87	50 0	112 2	107.7	118 2	105 7	103 7	74	121							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS MSD= Matrix Spike Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

CHRYSLER CORPORATION

Chain-of-Custody

04632 A

~~CompuChem~~ Kemron ~~501 Madison Avenue~~ 109 Starlite Park ~~Cary, NC 27513~~ Marietta OH 45750 Phone Number: ~~1-800-833-5097~~ 740 373 4071 Fax Number: ~~(919) 379-4050~~	Project Name: Offsite Drilling Dayton Thermal Products Site Location: 1600 Webster St Dayton OH Site Code: SC001 RFA Number: YGQP2001207 SDG 207B Chrysler PM: Gary Stanczuk	Consultant: LBG Address: 1210 West County Road E St. Paul MN 55112 Consultant PM: Kenneth Vogel Phone: 651 490 1405 Fax: 1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days 14 day
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOC 5030B/5035/8260B								Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MW-36S 18 feet	3/12/01	13:50	G	S	1	X												PID 57 ppm

Sampler(s) David Strand

Cooler ID # LBG

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. 457366349090

Samples Relinquished under Airbill No. 815313875312

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
David Strand	3/13/01	Fed Ex				Yes No
						Yes No
			Received for Laboratory by: Brenda Gregory	3/14/01	1007	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

SDG 207B

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

C/C dated
Sb intact
Cooler Temp 10 (DLG)

Revision No. 1
Created: September 23, 1997

KEMRON Environmental Services | **SAMPLES RECEIPT FORM #1** | Marietta Laboratory

CLIENT: Compuchem BRG (✓) ARS Other _____	DATE: 3-14-01	SHIPPED BY: (✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

COOLER ID: Ogloo	COOLER ID:	COOLER ID:
INDEX # : 815313875312	INDEX # :	INDEX # :
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY ( ) YES (✓) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP : (C) (D) 10 °C	TEMP : (C) (D) °C	TEMP : (C) (D) °C
TEMP IN RANGE (4°C ± 2°) ( ) YES (✓) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
1 small bag WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL (✓) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

CRF#4

Sample Receipt Form #2

Client: Compuchem Project: Dayton
Date Received: 3/14/01

10 Cooler temperature > than 6 degrees Celcius
Reason 1 small bag wet ice

_____ Samples received not on chain of custody

_____ Samples on chain of custody not received

_____ Information on sample containers different from chain of custody

_____ Sample containers received broken, leaking or not sealed (List sample ID)

_____ pH out (List sample ID & which container)

_____ Insufficient sample volume

_____ Air bubbles present in Voa vials (List sample ID)

_____ Hold time expired (List sample ID)

TSR:
Was client notified regarding information: YES NO
Name of person contacted: Diane Byrd Company: Compuchem
TSR: Melissa Grimes Date: 3-14-01
Attach: Phone Logs, e-mails, faxes, etc.

KEMRON Internal Laboratory Chain of Custody

Work Order: L0103301 **Client:** Compuchem **# of Samples:** 01 **Due Date:** _____ **Page:** _____

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
01A	8260	AN	mcf 3-12-01 1440	VI	VOA	[signature]	aus 3-26-01 @1000	archive	BLG	archive

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103301-01
Client Sample ID: MW-36S/18'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04632/
Date Collected: 03/12/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 96

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 16:00

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2358

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	100	1
71-43-2	Benzene	ug/kg		ND	5.2	1
108-86-1	Bromobenzene	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
75-25-2	Bromoform	ug/kg		ND	5.2	1
74-83-9	Bromomethane	ug/kg		ND	10	1
78-93-3	2-Butanone	ug/kg		ND	100	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.2	1
75-00-3	Chloroethane	ug/kg		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	10	1
67-66-3	Chloroform	ug/kg		ND	5.2	1
74-87-3	Chloromethane	ug/kg		ND	10	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1

= Reporting Limit

in #L0103301
ch 21, 2001 04:26 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103301-01
ient Sample ID: MW-36S/18'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04632/
Date Collected: 03/12/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 96

P Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 16:00

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2358

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
110-54-3	n-Hexane	ug/kg		ND	10	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.2	1
108-88-3	Toluene	ug/kg		ND	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg		ND	5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	0.31	J	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	2.1	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	99.0	(80 - 120%)
1,2-Dichloroethane-d4	102	(80 - 120%)
Toluene-d8	108	(81 - 117%)
4-Bromofluorobenzene	111	(74 - 121%)

= Reporting Limit

TEST CERTIFICATE

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103301
Report Date: 03/21/01
Work ID: SC001/OFFSITE DRILLING
Date Received: 03/14/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103301-01	MW-36S/18'		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

in #L0103301
ch 21, 2001 04:26 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103301-01
ent Sample ID: MW-36S/18'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/12/01 13:50

% Solid: 96
COC Info: 04632/

lyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
cent Solids.....	weight %	96		1.0	1	N/A	TMM	03/20/01	15:10	D2216-90

= Reporting Limit

COMPUCHEM
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

Visit our web site –
www.compuchemlabs.com

FAX

TO: KEN VOGEL

FROM: CATHY DOVER
PHONE: (919) 379-4100
FAX: (919) 379-4050

FAX: (651) 490-1006

DATE: 3/21/01

PAGES WITH COVER: 5

COMMENTS:

VOC RESULTS FROM KEMRON ON MW-36S/18' (RFA ~~208~~ 207)

Appendix ~~X~~ ~~[illegible]~~ V

METCO

Offsite Geoprobe Analytical data

June 1995

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER
AND ENVIRONMENTAL ENGINEERING SERVICES

1210 WEST COUNTY ROAD E, Suite 700
SAINT PAUL, MN 55112

(651) 490-1405 FAX (651) 490-1006

DATE: April 9, 2001

PAGES: 2
(Includes cover page)

TO: Melissa Grimes
COMPANY: KEMRON

FAX #: 740-373-4835
PHONE #: 740-373-4071

FROM: Dave Strand

RE: DaimlerChrysler
Dayton Thermal Products

I made an error on SDG 207C, chain of custody 04633. The sample labeled PZ-17I should have been labeled PZ-37I. Would you please make the appropriate changes on the lab report. Sorry I did not catch this earlier.

fax TRANSMITTAL S:\TECH\3CHRY\DAYTON\ANALYTIC\SOIL\PZ-37I.FAX

CHRYSLER CORPORATION

Chain-of-Custody

04633 A

Offsite Drilling

CompuChem Kinwon
501 Madison Avenue 104 Starlite Park
Cary, NC 27513 Marietta OH 45750
Phone Number: ~~1-800-833-5097~~ 740 373 4071
Fax Number: ~~(919) 379-4050~~ 740 373 4835

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St, Dayton OH
Site Code: SC001
RFA Number: YGAP2001207 SDG 207C
Chrysler PM: Gary Stanczuk

Consultant: LBG
Address: 1210 West County Road E
St. Paul MN 55112
Consultant PM: Kenneth Vugal
Phone: 651 490 1405 Fax: 1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs. 14 day
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOC 5030B/5035/8260B								Lab Use Only: Volatiles pH <2	Metals pH <2	Cyanide pH >12	Other ____	Remarks
MW-32S 23 feet	3/14/01	1040	G	S	1	X												PID 16 ppm
~~PZ-49I~~ PZ-37I 48 feet	3/15/01	1305	G	S	1	X												PID 127 ppm

Sampler(s): David Strand

Cooler ID # KL194

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. 4573 6034 9040

Samples Relinquished under Airbill No. 8153 1387 5301

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	3/16/01					Yes No
						Yes No
			Received for Laboratory by:			Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

SDG 207C

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 1
Created: September 23, 1997

(Includes cover page)

TO: Melissa Grimes
COMPANY: KEMRON

FAX #: 740-373-4835
PHONE #: 740-373-4071

FROM: Dave Strand

RE: DaimlerChrysler
Dayton Thermal Products

I made an error on SDG 207C, chain of custody 04633. The sample labeled PZ-17I should have been labeled PZ-37I. Would you please make the appropriate changes on the lab report. Sorry I did not catch this earlier.

fax TRANSMITTAL

S:\TECH\JCHRY\DAYTON\ANALYTIC\SOIL\PZ-37I.FAX

04/09/2001 14:08 FAX

001

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	0937	
CONNECTION TEL		17403734835
SUBADDRESS		
CONNECTION ID		
ST. TIME	04/09 14:07	
USAGE T	01'22	
PGS. SENT	2	
RESULT	OK	

MAY 4 2001

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103391
Report Date: 04/10/01
Work ID: SC001/OFFSITE DRILLING
Date Received: 03/17/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103391-01	MW-32S/23'	L0103391-02	PZ-~~17~~I/48' 37I

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0103391

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: Trichlorofluoromethane, n-hexane and vinyl acetate yielded a %D outside the advisory limits. All other acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on 19-MAR-2001 yielded a %D for bromomethane, trichlorofluoromethane, hexachlorobutadiene and 1,2,3-trichlorobenzene outside advisory limits. The CCV analyzed on 20-MAR-2001 yielded a %D for trichlorofluoromethane, hexachlorobutadiene and 1,2,3-trichlorobenzene outside advisory limits. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 19-MAR-2001 yielded a %recovery for several compounds that were below the laboratory control limit. All other acceptance criteria were met.

Matrix Spikes: The MS/MSD analysis was not associated with this workorder.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RSS REVIEWED: _____ DATE: 4/9/01

Login #L0103391
April 10, 2001 01:57 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103391-01
Client Sample ID: MW-32S/23'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/14/01 10:40

% Solid: 89
COC Info: 04633/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	89		1.0	1	N/A	TMM	03/23/01	14:30	D2216-90

RL = Reporting Limit

Login #L0103391
April 10, 2001 01:57 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103391-01
Client Sample ID: MW-32S/23'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04633/
Date Collected: 03/14/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 89

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 16:35

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2359

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.6	1
108-86-1	Bromobenzene	ug/kg		ND	5.6	1
74-97-5	Bromochloromethane	ug/kg		ND	5.6	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.6	1
75-25-2	Bromoform	ug/kg		ND	5.6	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.6	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.6	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.6	1
75-15-0	Carbon disulfide	ug/kg		ND	5.6	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.6	1
108-90-7	Chlorobenzene	ug/kg		ND	5.6	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.6	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.6	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.6	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.6	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.6	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.6	1
74-95-3	Dibromomethane	ug/kg		ND	5.6	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.6	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.6	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.6	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.6	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.6	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.6	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	0.67	J	5.6	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.6	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.6	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.6	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.6	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.6	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.6	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.6	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103391-01
Client Sample ID: MW-32S/23'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04633/
Date Collected: 03/14/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 89

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 16:35

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2359

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.6	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.6	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.6	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.6	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.6	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.6	1
100-42-5	Styrene	ug/kg		ND	5.6	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.6	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.6	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.6	1
108-88-3	Toluene	ug/kg	1.0	J	5.6	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.6	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.6	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.6	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.6	1
79-01-6	Trichloroethene	ug/kg	75		5.6	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.6	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.6	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.6	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.6	1
108-38-3	m-Xylene	ug/kg		ND	5.6	1
106-42-3	p-Xylene	ug/kg		ND	5.6	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.2	(80 - 120%)
1,2-Dichloroethane-d4	97.7	(80 - 120%)
Toluene-d8	105	(81 - 117%)
4-Bromofluorobenzene	111	(74 - 121%)

RL = Reporting Limit

Login #L0103391
April 10, 2001 01:57 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103391-02
Client Sample ID: ~~PZ-171/48'~~ PZ-3II/48'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/15/01 13:05

% Solid: 87
COC Info: 04633/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	87		1.0	1	N/A	TMM	03/23/01	14:30	D2216-90

RL = Reporting Limit

Login #L0103391
April 10, 2001 01:57 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103391-02
Client Sample ID: ~~PZ-17I/48'~~ PZ-37I/48'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 04633/
Date Collected: 03/15/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 87

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 17:05

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2360.D

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.7	1
108-86-1	Bromobenzene	ug/kg		ND	5.7	1
74-97-5	Bromochloromethane	ug/kg		ND	5.7	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.7	1
75-25-2	Bromoform	ug/kg		ND	5.7	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.7	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.7	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.7	1
75-15-0	Carbon disulfide	ug/kg		ND	5.7	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.7	1
108-90-7	Chlorobenzene	ug/kg		ND	5.7	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.7	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.7	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.7	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.7	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.7	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.7	1
74-95-3	Dibromomethane	ug/kg		ND	5.7	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.7	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.7	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.7	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.7	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.7	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.7	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	0.67	J	5.7	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.7	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.7	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.7	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.7	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.7	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.7	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.7	1

RL = Reporting Limit

Login #L0103391
April 10, 2001 01:57 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103391-02
Client Sample ID: ~~PZ-17I~~/48'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil
PZ-37I/48'

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/01 Time: 17:05

Dil. Type: N/A
COC Info: 04633/

Date Collected: 03/15/01

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2360.D

Sample Weight: N/A
Extract Volume: N/A

% Solid: 87

Method: 8260B\5035
Run ID: R118018
Batch : WG94093

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.7	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.7	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.7	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.7	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.7	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.7	1
100-42-5	Styrene	ug/kg		ND	5.7	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.7	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.7	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.7	1
108-88-3	Toluene	ug/kg	0.72	J	5.7	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.7	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.7	1
71-55-6	1,1,1-Trichloroethane	ug/kg	2.4	J	5.7	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.7	1
79-01-6	Trichloroethene	ug/kg	390	D	29	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.7	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.7	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.7	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.3	1
95-47-6	o-Xylene	ug/kg		ND	5.7	1
108-38-3	m-Xylene	ug/kg		ND	5.7	1
106-42-3	p-Xylene	ug/kg		ND	5.7	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	99.4	(80 - 120%)
1,2-Dichloroethane-d4	103	(80 - 120%)
Toluene-d8	112	(81 - 117%)
4-Bromofluorobenzene	116	(74 - 121%)

RL = Reporting Limit

Order #: 01-03-391
April 10, 2001 01:57 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG94093	R118018	L0103391-01		Soil	Volatile Organics	8260B\5035	14-MAR-2001	Volatile - GC/MS
WG94093	R118018	L0103391-02		Soil	Volatile Organics	8260B\5035	15-MAR-2001	Volatile - GC/MS
WG94447	R118721	L0103391-01		Soil	Percent Solids	D2216-90	14-MAR-2001	Conventionals
WG94447	R118721	L0103391-02		Soil	Percent Solids	D2216-90	15-MAR-2001	Conventionals

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/28/2001

ABW - ANGELA B. WIGAL
ADB - AMANDA D. BREEDLOVE
ADH - ANGELA D. HURST
AJF - AMANDA J. FICKIESEN
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BJM - BARRY J. MYERS
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DCU - DAVID C. UNDERWOOD
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LBM - LAWRENCE B. MCSWEGAN
LKN - LINDA K. NEDEFF
LRR - LUCYNDA R. ROBERTS
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MDG - MELISSA D. GRIMES
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
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MRR - MICHELLE R. RAUCH
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
SLC - SHAWN L. COLE
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

***** Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

Kemron Environmental Services -OVL

Volatile Quality Control Summary - 8260

Workgroup:	WG94093	Run Date:	3/19/01	Sample Number: 03327-01	LCS DF: 1
Method:	8260B	Instrument:	HPMS11	Sample Filename: 11M2364.D	Sample DF: 1
Matrix:	Soil	Blank Filename:	11M2356.D	MS Filename: 11M2365.D	MS DF: 1
Units:	ug/kg	LCS Filename:	11M2357.D	MSD Filename: 11M2366.D	MSD DF: 1

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0.76	ND	16.94	ND	14.22	18.70	20.0	ND	84.7	ND	71.1	93.5	19.0	175.0	27.2	43.0					
chloromethane	0.62	ND	15.38	ND	15.89	20.02	20.0	ND	76.9	ND	79.5	100.1	54.0	144.0	23.0	25.0					
vinyl chloride	1.06	ND	17.61	ND	17.25	21.78	20.0	ND	88.1	ND	86.3	108.9	67.0	141.0	23.2	26.0					
bromomethane	0.95	ND	18.95	ND	17.98	22.76	20.0	ND	94.8	ND	89.9	113.8	67.0	143.0	23.5	27.0					
chloroethane	1.42	ND	17.29	ND	16.90	21.54	20.0	ND	86.5	ND	84.5	107.7	71.0	135.0	24.1	24.0					H
trichlorofluoromethane	1.48	ND	8.72	ND	8.63	14.51	20.0	ND	43.6	ND	43.2	72.6	68.0	151.0	50.8	24.0		L	L		H
acetone	3.90	ND	16.88	ND	30.85	50.33	20.0	ND	84.4	ND	154.3	251.7	70.0	161.0	48.0	51.0				H	
1,1-dichloroethene	0.90	ND	18.78	ND	14.53	17.69	20.0	ND	93.9	ND	72.7	88.5	83.0	133.0	19.6	16.0			L		H
iodomethane	0.72	ND	19.80	ND	17.95	24.85	20.0	ND	99.0	ND	89.8	124.3	NA	NA	32.2	NA					
methylene chloride	0.61	ND	17.91	ND	16.42	20.02	20.0	ND	89.6	ND	82.1	100.1	70.0	130.0	19.8	17.0					H
carbon disulfide	0.68	ND	17.47	ND	11.93	15.00	20.0	ND	87.4	ND	59.7	75.0	65.0	135.0	22.8	19.0			L		H
methyl-tert-butyl ether	0.77	ND	19.35	ND	18.23	19.66	20.0	ND	96.8	ND	91.2	98.3	NA	NA	7.5	NA					
trans-1,2-dichloroethene	0.42	ND	19.21	ND	14.18	17.72	20.0	ND	96.1	ND	70.9	88.6	81.0	145.0	22.2	15.0			L		H
n-hexane	2.68	ND	21.70	ND	10.01	8.51	20.0	ND	108.5	ND	50.1	42.6	28.0	172.0	16.2	45.0					
vinyl acetate	4.68	ND	7.91	ND	5.94	5.44	20.0	ND	39.6	ND	29.7	27.2	10.0	156.0	8.8	155					
1,1-dichloroethane	0.50	ND	19.57	ND	15.40	18.63	20.0	ND	97.9	ND	77.0	93.2	86.0	126.0	19.0	16.0			L		H
2-butanone	3.62	ND	18.20	ND	20.55	25.04	20.0	ND	91.0	ND	102.8	125.2	39.0	159.0	19.7	47.0					
2,2-dichloropropane	0.59	ND	17.65	ND	13.46	15.90	20.0	ND	88.3	ND	67.3	79.5	70.0	134.0	16.6	20.0			L		
cis-1,2-dichloroethene	0.43	ND	18.64	ND	14.45	17.13	20.0	ND	93.2	ND	72.3	85.7	78.0	129.0	17.0	16.0			L		H
chloroform	0.49	ND	19.00	ND	14.88	17.61	20.0	ND	95.0	ND	74.4	88.1	81.0	126.0	16.8	15.0			L		H
bromochloromethane	0.69	ND	18.13	ND	15.66	19.35	20.0	ND	90.7	ND	78.3	96.8	81.0	129.0	21.1	15.0			L		H
1,1,1-trichloroethane	0.72	ND	17.68	ND	12.81	14.93	20.0	ND	88.4	ND	64.1	74.7	77.0	130.0	15.3	17.0			L	L	
1,1-dichloropropene	0.56	ND	17.56	ND	11.43	13.42	20.0	ND	87.8	ND	57.2	67.1	92.0	136.0	16.0	15.0		L	L	L	H
carbon tetrachloride	0.57	ND	17.44	ND	10.75	12.41	20.0	ND	87.2	ND	53.8	62.1	76.0	132.0	14.3	19.0			L	L	
1,2-dichloroethane	0.58	ND	18.05	ND	16.16	18.92	20.0	ND	90.3	ND	80.8	94.6	78.0	128.0	15.7	16.0					
benzene	0.44	ND	18.15	ND	13.34	15.89	20.0	ND	90.8	ND	66.7	79.5	86.0	122.0	17.4	15.0			L	L	H
trichloroethene	0.62	ND	17.77	ND	11.35	13.38	20.0	ND	88.9	ND	56.8	66.9	84.0	125.0	16.4	15.0			L	L	H
1,2-dichloropropane	0.51	ND	17.72	ND	13.53	16.11	20.0	ND	88.6	ND	67.7	80.6	83.0	125.0	17.4	15.0			L	L	H
bromodichloromethane	0.49	ND	19.44	ND	14.58	17.56	20.0	ND	97.2	ND	72.9	87.8	80.0	130.0	18.5	15.0			L		H
dibromomethane	0.62	ND	18.89	ND	14.61	17.75	20.0	ND	94.5	ND	73.1	88.8	80.0	127.0	19.4	15.0			L		H
2-chloroethylvinyl ether	2.57	ND	16.41	ND	13.32	16.15	20.0	ND	82.1	ND	66.6	80.8	50.0	154.0	19.2	15.0					H
4-methyl-2-pentanone	3.96	ND	17.11	ND	19.55	18.37	20.0	ND	85.6	ND	97.8	91.9	48.0	158.0	6.2	42.0					
cis-1,3-dichloropropene	0.47	ND	17.64	ND	12.50	15.35	20.0	ND	88.2	ND	62.5	76.8	85.0	127.0	20.5	15.0			L	L	H
toluene	0.50	ND	18.07	ND	11.77	13.45	20.0	ND	90.4	ND	58.9	67.3	85.0	123.0	13.3	15.0			L	L	
trans-1,3-dichloropropene	0.58	ND	17.98	ND	13.05	14.83	20.0	ND	89.9	ND	65.3	74.2	82.0	124.0	12.8	15.0			L	L	
1,1,2-trichloroethane	0.59	ND	17.63	ND	13.26	14.91	20.0	ND	88.2	ND	66.3	74.6	82.0	126.0	11.7	16.0			L	L	
2-hexanone	4.20	ND	17.12	ND	15.52	16.75	20.0	ND	85.6	ND	77.6	83.8	38.0	130.0	7.6	51.0					
1,3-dichloropropane	0.54	ND	17.53	ND	13.45	15.01	20.0	ND	87.7	ND	67.3	75.1	84.0	104.0	11.0	15.0			L	L	
tetrachloroethene	0.44	ND	17.24	ND	9.45	9.90	20.0	ND	86.2	ND	47.3	49.5	83.0	126.0	4.7	15.0			L	L	
dibromochloromethane	0.21	ND	18.88	ND	12.63	14.68	20.0	ND	94.4	ND	63.2	73.4	82.0	126.0	15.0	17.0			L	L	
1,2-dibromoethane	0.21	ND	17.05	ND	12.58	14.37	20.0	ND	85.3	ND	62.9	71.9	81.0	128.0	13.3	17.0			L	L	
1-chlorohexane	0.44	ND	20.32	ND	8.29	8.24	20.0	ND	101.6	ND	41.5	41.2	60.0	140.0	0.6	NA			L	L	
chlorobenzene	0.24	ND	17.96	ND	10.35	11.81	20.0	ND	89.8	ND	51.8	59.1	86.0	125.0	13.2	15.0			L	L	
1,1,1,2-tetrachloroethane	0.29	ND	17.89	ND	10.48	11.90	20.0	ND	89.5	ND	52.4	59.5	83.0	127.0	12.7	15.0			L	L	
ethylbenzene	0.26	ND	17.80	ND	9.54	10.24	20.0	ND	89.0	ND	47.7	51.2	86.0	127.0	7.1	15.0			L	L	
m+p-xylene	0.46	ND	37.27	ND	18.09	20.42	40.0	ND	93.2	ND	45.2	51.1	86.0	123.0	12.1	15.0			L	L	
o-xylene	0.23	ND	18.47	ND	9.74	11.02	20.0	ND	92.4	ND	48.7	55.1	87.0	124.0	12.3	15.0			L	L	
styrene	0.23	ND	17.52	ND	9.14	10.87	20.0	ND	87.6	ND	45.7	54.4	83.0	124.0	17.3	15.0			L	L	H
bromoform	0.25	ND	16.94	ND	10.17	12.02	20.0	ND	84.7	ND	50.9	60.1	64.0	132.0	16.7	24.0			L	L	
isopropylbenzene	0.30	ND	17.00	ND	8.04	8.52	20.0	ND	85.0	ND	40.2	42.6	85.0	124.0	5.8	15.0			L	L	
1,1,2,2-tetrachloroethane	0.47	ND	15.96	ND	11.39	11.48	20.0	ND	79.8	ND	57.0	57.4	72.0	140.0	0.8	22.0			L	L	
1,2,3-trichloropropane	0.80	ND	15.78	ND	11.94	12.55	20.0	ND	78.9	ND	59.7	62.8	70.0	144.0	5.0	24.0			L	L	
propyl-benzene	0.28	ND	17.39	ND	8.40	8.22	20.0	ND	87.0	ND	42.0	41.1	84.0	126.0	2.2	15.0			L	L	
bromobenzene	0.24	ND	15.92	ND	8.76	9.43	20.0	ND	79.6	ND	43.8	47.2	85.0	121.0	7.4	15.0		L	L	L	
1,3,5-trimethylbenzene	0.30	ND	16.77	ND	7.89	7.78	20.0	ND	83.9	ND	39.5	38.9	86.0	124.0	1.4	15.0		L	L	L	
2-chlorotoluene	0.41	ND	17.04	ND	8.40	8.38	20.0	ND	85.2	ND	42.0	41.9	81.0	127.0	0.2	15.0			L	L	
4-chlorotoluene	0.25	ND	16.81	ND	8.25	8.29	20.0	ND	84.1	ND	41.3	41.5	84.0	125.0	0.5	15.0			L	L	
tert-butyl-benzene	0.31	ND	17.19	ND	8.06	7.86	20.0	ND	86.0	ND	40.3	39.3	83.0	125.0	2.5	15.0			L	L	
1,2,4-trimethylbenzene	0.22	ND	16.96	ND	7.79	7.79	20.0	ND	84.8	ND	39.0	39.0	87.0	124.0	0.0	18.0		L	L	L	
sec-butyl-benzene	0.29	ND	16.16	ND	7.26	6.98	20.0	ND	80.8	ND	36.3	34.9	83.0	126.0	3.9	15.0		L	L	L	
p-isopropyl-toluene	0.24	ND	15.73	ND	6.74	6.62	20.0	ND	78.7	ND	33.7	33.1	83.0	122.0	1.8	15.0		L	L	L	
1,3-dichlorobenzene	0.29	ND	16.19	ND	7.33	7.33	20.0	ND	81.0	ND	36.7	36.7	85.0	121.0	0.0	15.0		L	L	L	
1,4-dichlorobenzene	0.27	ND	16.57	ND	7.43	7.52	20.0	ND	82.9	ND	37.2	37.6	84.0	119.0	1.2	15.0		L	L	L	
n-butyl-benzene	0.27	ND	16.65	ND	6.69	6.61	20.0	ND	83.3	ND	33.5	33.1	81.0	128.0	1.2	15.0			L	L	
1,2-dichlorobenzene	0.22	ND	16.18	ND	7.43	7.33	20.0	ND	80.9	ND	37.2	36.7	86.0	123.0	1.4	15.0		L	L	L	
1,2-dibromo-3-chloropropane	0.75	ND	16.01	ND	8.34	9.71	20.0	ND	80.1	ND	41.7	48.6	51.0	151.0	15.2	38.0			L	L	
1,2,4-trichlorobenzene	0.47	ND	15.19	ND	4.70	4.38	20.0	ND	76.0	ND	23.5	21.9	74.0	126.0	7.0	26.0			L	L	
hexachlorobutadiene	0.34	ND	13.79	ND	4.53	4.32	20.0	ND	69.0	ND	22.7	21.6	73.0	131.0	4.7	46.0		L	L	L	
naphthalene	0.56	ND	14.85	ND	5.83	5.95	20.0	ND	74.3	ND	29.2	29.8	61.0	142.0	2.0	25.0			L	L	
1,2,3-trichlorobenzene	0.49	ND	14.50	ND	4.21	3.92	20.0	ND	72.5	ND	21.1	19.6	72.0	130.0	7.1	18.0			L	L	
Surrogates																					
dibromofluoromethane		49.24	50.63	54.48	46.29	49.79	50.0	98.5	101.3	109.0	92.6	99.6	80	120							
1,2-dichloroethane-d4		50.72	49.37	56.69	47.85	51.09	50.0	101.4	98.7	113.4	95.7	102.2	80	120							
toluene-d8		52.46	52.17	56.42	49.95	51.32	50.0	104.9	104.3	112.8	99.9	102.6	81	117							
p-bromofluorobenzene		56.08	53.86	59.12	52.83	51.87	50.0	112.2	107.7	118.2	105.7	103.7	74	121							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS MSD= Matrix Spike Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

Kemron Environmental Services -OVL
Volatile Quality Control Summary

Workgroup #:	WG94165	Run Date:	3/20/2001	Sample Number:	03392-02	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS11	Sample Filename:	11M2390.D	Sample DF:	5
Matrix:	Soil	Blank Filename:	11M2378.D	MS Filename:	11M2391.D	MS DF:	5
Units:	ug/kg	LCS Filename:	11M2379.D	MSD Filename:	11M2392.D	MSD DF:	5

								PERCENT RECOVERY							PERCENT RPD		OUTLIERS				
	RDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	5.0	U	18.28	U	91.37	19.54	100.0	U	91.4	U	91.4	19.5	65.0	135.0	129.5	30.0				L	H
chloromethane	7.0	U	16.72	U	88.31	18.92	100.0	U	83.6	U	88.3	18.9	65.0	135.0	129.4	30.0				L	H
vinyl chloride	9.0	U	19.69	U	103.65	22.17	100.0	U	98.5	U	103.7	22.2	36.0	144.0	129.5	30.0				L	H
bromomethane	5.0	U	20.37	U	102.03	21.04	100.0	U	101.9	U	102.0	21.0	62.0	135.0	131.6	30.0				L	H
chloroethane	5.0	U	18.66	U	107.83	22.64	100.0	U	93.3	U	107.8	22.6	55.0	135.0	130.6	30.0				L	H
trichlorofluoromethane	4.0	U	19.67	U	57.57	13.83	100.0	U	98.4	U	57.6	13.8	57.0	135.0	122.5	30.0				L	H
1,1-dichloroethene	6.0	U	18.78	U	130.22	28.32	100.0	U	93.9	U	130.2	28.3	65.0	135.0	128.5	30.0				L	H
methylene chloride	2.0	U	17.28	U	102.06	22.19	100.0	U	86.4	U	102.1	22.2	35.0	135.0	128.6	30.0				L	H
trans-1,2-dichloroethene	3.0	U	18.88	U	143.97	31.22	100.0	U	94.4	U	144.0	31.2	65.0	135.0	128.7	30.0			H	L	H
1,1-dichloroethane	2.0	U	18.97	U	149.37	32.05	100.0	U	94.9	U	149.4	32.1	62.0	135.0	129.3	30.0			H	L	H
2,2-dichloropropane	20.0	U	18.73	U	171.55	34.94	100.0	U	93.7	U	171.6	34.9	65.0	135.0	132.3	30.0			H	L	H
cis-1,2-dichloroethene	6.0	U	18.21	U	126.41	27.89	100.0	U	91.1	U	126.4	27.9	65.0	135.0	127.7	30.0				L	H
chloroform	2.0	U	19.19	U	149.81	32.31	100.0	U	96.0	U	149.8	32.3	64.0	135.0	129.0	30.0			H	L	H
bromochloromethane	2.0	U	18.23	U	103.77	22.53	100.0	U	91.2	U	103.8	22.5	63.0	135.0	128.6	30.0				L	H
1,1,1-trichloroethane	4.0	U	18.59	U	169.57	35.74	100.0	U	93.0	U	169.6	35.7	65.0	135.0	130.4	30.0			H	L	H
1,1-dichloropropene	5.0	U	18.06	U	147.43	30.48	100.0	U	90.3	U	147.4	30.5	65.0	135.0	131.5	30.0			H	L	H
carbon tetrachloride	10.0	U	17.19	U	153.53	33.42	100.0	U	86.0	U	153.5	33.4	52.0	135.0	128.5	30.0			H	L	H
1,2-dichloroethane	3.0	U	18.79	U	129.07	26.95	100.0	U	94.0	U	129.1	27.0	58.0	137.0	130.9	30.0				L	H
benzene	2.0	U	18.31	U	123.49	25.79	100.0	U	91.6	U	123.5	25.8	65.0	135.0	130.9	30.0				L	H
trichloroethene	10.0	U	18.02	U	147.88	31.17	100.0	U	90.1	U	147.9	31.2	61.0	135.0	130.4	30.0			H	L	H
1,2-dichloropropane	2.0	U	17.04	U	129.57	26.36	100.0	U	85.2	U	129.6	26.4	60.0	135.0	132.4	30.0				L	H
bromodichloromethane	4.0	U	19.14	U	164.04	33.09	100.0	U	95.7	U	164.0	33.1	65.0	135.0	132.9	30.0			H	L	H
dibromomethane	10.0	U	18.08	U	109.80	25.01	100.0	U	90.4	U	109.8	25.0	59.0	137.0	125.8	30.0				L	H
cis-1,3-dichloropropene	5.0	U	17.31	U	124.38	26.36	100.0	U	86.6	U	124.4	26.4	64.0	135.0	130.1	30.0				L	H
toluene	5.0	U	18.56	U	142.47	31.28	100.0	U	92.8	U	142.5	31.3	64.0	135.0	128.0	30.0			H	L	H
trans-1,3-dichloropropene	5.0	U	17.46	U	85.71	19.93	100.0	U	87.3	U	85.7	19.9	56.0	135.0	124.5	30.0				L	H
1,1,2-trichloroethane	5.0	U	16.99	U	197.70	30.88	100.0	U	85.0	U	197.7	30.9	65.0	135.0	146.0	30.0			H	L	H
1,3-dichloropropane	2.0	U	17.09	U	151.00	30.58	100.0	U	85.5	U	151.0	30.6	65.0	135.0	132.6	30.0			H	L	H
tetrachloroethene	7.0	U	17.98	U	106.18	24.47	100.0	U	89.9	U	106.2	24.5	61.0	135.0	125.1	30.0				L	H
dibromochloromethane	3.0	U	17.53	U	122.18	26.74	100.0	U	87.7	U	122.2	26.7	63.0	135.0	128.2	30.0				L	H
1,2-dibromoethane	3.0	U	16.72	U	160.22	32.28	100.0	U	83.6	U	160.2	32.3	65.0	135.0	132.9	30.0			H	L	H
1-chlorohexane	3.0	U	18.99	U	141.25	29.66	100.0	U	95.0	U	141.3	29.7	65.0	135.0	130.6	30.0			H	L	H
chlorobenzene	2.0	U	18.17	U	98.61	17.44	100.0	U	90.9	U	98.6	17.4	65.0	135.0	139.9	30.0				L	H
1,1,1,2-tetrachloroethane	3.0	U	17.59	U	108.06	25.30	100.0	U	88.0	U	108.1	25.3	62.0	108.0	124.1	30.0			H	L	H
ethylbenzene	3.0	U	17.70	U	94.66	22.62	100.0	U	88.5	U	94.7	22.6	65.0	135.0	122.9	30.0				L	H
m+p-xylene	10.0	U	34.69	U	213.40	49.36	200.0	U	86.7	U	106.7	24.7	65.0	135.0	124.9	30.0				L	H
o-xylene	5.0	U	17.10	U	91.09	21.22	100.0	U	85.5	U	91.1	21.2	65.0	135.0	124.4	30.0				L	H
styrene	2.0	U	16.44	U	84.44	19.24	100.0	U	82.2	U	84.4	19.2	65.0	135.0	125.8	30.0				L	H
bromoform	6.0	U	14.92	U	103.94	23.59	100.0	U	74.6	U	103.9	23.6	65.0	135.0	126.0	30.0				L	H
isopropylbenzene	8.0	U	16.09	1155.65	1714.09	223.63	100.0	U	80.5	1155.7	558.4	NA	65.0	135.0	NA	30.0			H		
1,1,2,2-tetrachloroethane	2.0	U	15.79	U	81.48	18.39	100.0	U	79.0	U	81.5	18.4	64.0	135.0	26.3	30.0				L	H
1,2,3-trichloropropane	20.0	U	15.79	U	191.07	0.00	100.0	U	79.0	U	191.1	0.0	65.0	135.0	200.0	30.0			H	L	H
propyl-benzene	2.0	U	17.16	986.26	1273.04	169.43	100.0	U	85.8	986.3	286.8	NA	65.0	135.0	NA	30.0			H		
bromobenzene	2.0	U	16.56	U	157.40	47.81	100.0	U	82.8	U	157.4	47.8	65.0	135.0	106.8	30.0			H	L	H
1,3,5-trimethylbenzene	3.0	U	17.27	U	85.86	21.33	100.0	U	86.4	U	85.9	21.3	62.0	135.0	120.4	30.0				L	H
2-chlorotoluene	2.0	U	16.73	U	81.60	18.82	100.0	U	83.7	U	81.6	18.8	63.0	135.0	125.0	30.0				L	H
4-chlorotoluene	3.0	U	17.18	U	90.72	18.74	100.0	U	85.9	U	90.7	18.7	64.0	135.0	131.5	30.0				L	H
tert-butyl-benzene	7.0	U	17.41	116.83	218.40	39.67	100.0	U	87.1	116.8	101.6	NA	65.0	135.0	NA	30.0					
1,2,4-trimethylbenzene	7.0	0.23	17.53	U	83.67	21.03	100.0	0.2	87.7	U	83.7	21.0	65.0	135.0	119.7	30.0				L	H
sec-butyl-benzene	7.0	U	16.38	588.64	750.32	118.56	100.0	U	81.9	588.6	161.7	NA	65.0	135.0	NA	30.0			H		
p-isopropyl-toluene	6.0	U	16.26	U	88.04	23.16	100.0	U	81.3	U	88.0	23.2	65.0	135.0	116.7	30.0				L	H
1,3-dichlorobenzene	6.0	U	16.74	U	85.62	21.04	100.0	U	83.7	U	85.6	21.0	65.0	135.0	121.1	30.0				L	H
1,4-dichlorobenzene	2.0	U	16.91	U	77.61	19.16	100.0	U	84.6	U	77.6	19.2	65.0	135.0	120.8	30.0				L	H
n-butyl-benzene	5.0	U	17.54	299.79	388.67	65.52	100.0	U	87.7	299.8	88.9	NA	65.0	135.0	NA	30.0					
1,2-dichlorobenzene	2.0	U	16.78	U	84.09	20.50	100.0	U	83.9	U	84.1	20.5	65.0	135.0	121.6	30.0				L	H
2-dibromo-3-chloropropan	10.0	U	14.10	U	75.56	18.25	100.0	U	70.5	U	75.6	18.3	49.0	135.0	122.2	30.0				L	H
1,2,4-trichlorobenzene	2.0	U	15.85	U	62.83	17.89	100.0	U	79.3	U	62.8	17.9	65.0	145.0	111.3	30.0			L	L	H
hexachlorobutadiene	5.0	U	14.85	U	42.73	12.69	100.0	U	74.3	U	42.7	12.7	65.0	135.0	108.4	30.0			L	L	H
napthalene	2.0	U	15.11	U	121.81	26.95	100.0	U	75.6	U	121.8	27.0	65.0	135.0	127.5	30.0				L	H
1,2,3-trichlorobenzene	2.0	U	14.76	U	84.30	20.51	100.0	U	73.8	U	84.3	20.5	65.0	147.0	121.7	30.0				L	H
Surrogates																					
dibromofluoromethane		48.91	46.89	45.98	54.78	59.58	50.0	97.8	93.8	92.0	109.6	119.2	65	135							
1,2-dichloroethane-d4		51.13	49.24	53.96	53.51	55.64	50.0	102.3	98.5	107.9	107.0	111.3	52	149							
toluene-d8		50.70	51.12	69.14	71.95	70.13	50.0	101.4	102.2	138.3	143.9	140.3	65	135				H	H	H	
p-bromofluorobenzene		53.82	51.58	135.79	129.32	120.45	50.0	107.6	103.2	271.6	258.6	240.9	65	135				H	H	H	

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
U= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

CHRYSLER CORPORATION

Chain-of-Custody

04633 A

Offsite Drilling

~~CompuChem~~ Kemron
~~501 Madison Avenue~~ 109 Starlite Park
~~Cary, NC 27512~~ Marietta OH 45750
Phone Number: ~~1-800-833-5097~~ 740 373 4071
Fax Number: ~~(919) 379-4050~~

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St, Dayton OH
Site Code: SC001
RFA Number: YGQP2001207 SDG 207C
Chrysler PM: Gary Stanczuk

Consultant: LBG
Address: 1210 West County Road E
St. Paul MN 55112
Consultant PM: Kenneth Vogel
Phone: 651 490 1405 Fax: 1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs. 14 day
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOC 5030B/5035/8260B	Volatiles pH < 3	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MW-32S 23 feet	3/14/01	1040	G	S	1	X					PID 16 ppm
PZ-17I 48 feet	3/15/01	1305	G	S	1	X					PID 127 ppm

(*) S/o rec'd 3/17/01
Stored in locked
Cooler over weekend

Sampler(s): David Strand

Bottles Relinquished under Airbill No. 457366349040
Samples Relinquished under Airbill No. 81531387530
Temperature (corrected) ___ C 6.9

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	3/16/01					Yes No
						Yes No
			Received for Laboratory by: [signature]	3/19/01	0800	Yes No

Cooler ID # KL 194
Is RFA sampling complete? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

SDG 207C

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

C/C Dealed
S/o intact
Cooler Temp 2 6.9

Page 1 of 1

Revision No. 1
Created: September 23, 1997

CRF #3

KEMRON Environmental Services	SAMPLES RECEIPT FORM #1	Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
CompuChem BRG ARS Other _____	3-19-01	(✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

COOLER ID: KL194	COOLER ID:	COOLER ID:
INDEX # : 8153 13875301	INDEX # :	INDEX # :
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP : (C) (D) 2 °C	TEMP : (C) (D) °C	TEMP : (C) (D) °C
TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL (✓) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

KEMRON Internal Laboratory Chain of Custody

Work Order: 20103391 **Client:** Compuchem **# of Samples:** 2 **Due Date:** _____ **Page:** _____

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
1-2 A	8260	ANAL	RSS 03/19/01 @ 1600	V-1	VOA	BLG	[illegible] 3-23-01 1335	[illegible]	BLG	[illegible]
1-2A	RCT-5	test	TMM 3/23/01 @ 1330	walk in	out	BLG	TMM @ 1530 3/23/01	[illegible]	JKW	[illegible]

MAY -4 2001

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number:
Account Number: COMPUCHEM-529

Login #: L0103526
Report Date: 04/02/01
Work ID: SC001/OFFSITE DRILLING
Date Received: 03/24/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0103526-01	MW-29S/28'	L0103526-02	PZ-26I/50'

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

David L. Bumgarner

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0103526

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The ALT source analyzed on HPMS11 22-MAR-2001 yielded a %D for vinyl acetate outside advisory limits. The ALT source analyzed on HPMS10 26-MAR-2001 yielded a %D for n-hexane, vinyl acetate and 1,1-dichloropropene outside advisory limits. All other acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on HPMS11 26-MAR-2001 yielded a %D for bromomethane outside advisory limits. The CCV analyzed on HPMS10 27-MAR-2001 yielded a %D for acetone, naphthalene, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene and 2-chloroethyl vinyl ether outside advisory limits. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on HPMS10 yielded a %recovery for 1,2,3-trichlorobenzene below laboratory control limits. All other acceptance criteria were met.

Matrix Spikes: The laboratory performed MS/MSD analysis on sample fraction 01. There were several compounds which recovered outside the laboratory control limits.

SAMPLES

Internal Standards: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RSS/MES REVIEWED: _____ DATE: 4/9/01

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0103526

CHAIN OF CUSTODY:

The chain of custody number was 0631.

SHIPMENT CONDITIONS:

The chain of custody was received sealed in a cooler. The cooler temperature was 4° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Melissa Grimes DATE: 3-26-01

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0103526

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The ALT source analyzed on HPMS11 22-MAR-2001 yielded a %D for vinyl acetate outside advisory limits. The ALT source analyzed on HPMS10 26-MAR-2001 yielded a %D for n-hexane, vinyl acetate and 1,1-dichloropropene outside advisory limits. All other acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on HPMS11 26-MAR-2001 yielded a %D for bromomethane outside advisory limits. The CCV analyzed on HPMS10 27-MAR-2001 yielded a %D for acetone, naphthalene, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene and 2-chloroethyl vinyl ether outside advisory limits. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on HPMS10 yielded a %recovery for 1,2,3-trichlorobenzene below laboratory control limits. All other acceptance criteria were met.

Matrix Spikes: The laboratory performed MS/MSD analysis on sample fraction 01. There were several compounds which recovered outside the laboratory control limits.

SAMPLES

Internal Standards: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RSS/MES REVIEWED: _____ DATE: 4/9/01

Login #L0103526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103526-01
Client Sample ID: MW-29S/28'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/19/01 14:40

% Solid: 90
COC Info: 0631/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	90		1.0	1	N/A	TMM	03/30/01	14:05	D2216-90

RL = Reporting Limit

Login #L0103526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103526-01
Client Sample ID: MW-29S/28'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0631/
Date Collected: 03/19/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 90

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/26/01 Time: 16:36

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2499.D

Method: 8260B\5035
Run ID: R119131
Batch : WG94498

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.6	1
108-86-1	Bromobenzene	ug/kg		ND	5.6	1
74-97-5	Bromochloromethane	ug/kg		ND	5.6	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.6	1
75-25-2	Bromoform	ug/kg		ND	5.6	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.6	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.6	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.6	1
75-15-0	Carbon disulfide	ug/kg		ND	5.6	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.6	1
108-90-7	Chlorobenzene	ug/kg		ND	5.6	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.6	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.6	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.6	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.6	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.6	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.6	1
74-95-3	Dibromomethane	ug/kg		ND	5.6	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.6	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.6	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.6	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.6	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.6	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.6	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	12		5.6	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.6	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.6	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.6	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.6	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.6	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.6	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.6	1

RL = Reporting Limit

Login #L0103526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103526-01
Client Sample ID: MW-29S/28'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0631/
Date Collected: 03/19/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 90

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/26/01 Time: 16:36

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2499.D

Method: 8260B\5035
Run ID: R119131
Batch : WG94498

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.6	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.6	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.6	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.6	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.6	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.6	1
100-42-5	Styrene	ug/kg		ND	5.6	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.6	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.6	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.6	1
108-88-3	Toluene	ug/kg		ND	5.6	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.6	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.6	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.6	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.6	1
79-01-6	Trichloroethene	ug/kg	9300	D	560	100
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.6	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.6	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.6	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.6	1
108-38-3	m-Xylene	ug/kg		Z,ND	5.6	1
106-42-3	p-Xylene	ug/kg		ND	5.6	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	79.2	(65 - 135%)
1,2-Dichloroethane-d4	85.1	(52 - 149%)
Toluene-d8	96.5	(65 - 135%)
4-Bromofluorobenzene	111	(65 - 135%)

RL = Reporting Limit

Login #L0103526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0103526-02
Client Sample ID: PZ-26I/50'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/23/01 10:40

% Solid: 89
COC Info: 0631/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	89		1.0	1	N/A	TMM	03/30/01	14:05	D2216-90

RL = Reporting Limit

Login #L0103526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103526-02
Client Sample ID: PZ-26I/50'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0631/
Date Collected: 03/23/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 89

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/26/01 Time: 18:43

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2503.D

Method: 8260B\5035
Run ID: R119131
Batch : WG94498

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.6	1
108-86-1	Bromobenzene	ug/kg		ND	5.6	1
74-97-5	Bromochloromethane	ug/kg		ND	5.6	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.6	1
75-25-2	Bromoform	ug/kg		ND	5.6	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.6	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.6	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.6	1
75-15-0	Carbon disulfide	ug/kg		ND	5.6	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.6	1
108-90-7	Chlorobenzene	ug/kg		ND	5.6	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.6	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.6	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.6	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.6	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.6	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.6	1
74-95-3	Dibromomethane	ug/kg		ND	5.6	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.6	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.6	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.6	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.6	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.6	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.6	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	31		5.6	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.6	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.6	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.6	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.6	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.6	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.6	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.6	1

RL = Reporting Limit

Login #L0103526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0103526-02
Client Sample ID: PZ-26I/50'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0631/
Date Collected: 03/23/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 89

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/26/01 Time: 18:43

Instrument: HPMS11
Analyst: RSS
Lab File ID: 11M2503.D

Method: 8260B\5035
Run ID: R119131
Batch : WG94498

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.6	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.6	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.6	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.6	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.6	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.6	1
100-42-5	Styrene	ug/kg		ND	5.6	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.6	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.6	1
127-18-4	Tetrachloroethene	ug/kg	1.4	J	5.6	1
108-88-3	Toluene	ug/kg		ND	5.6	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.6	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.6	1
71-55-6	1,1,1-Trichloroethane	ug/kg	6.4		5.6	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.6	1
79-01-6	Trichloroethene	ug/kg	280	D	28	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.6	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.6	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.6	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.6	1
108-38-3	m-Xylene	ug/kg		Z,ND	5.6	1
106-42-3	p-Xylene	ug/kg		Z,ND	5.6	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	81.7	(65 - 135%)
1,2-Dichloroethane-d4	86.3	(52 - 149%)
Toluene-d8	97.4	(65 - 135%)
4-Bromofluorobenzene	106	(65 - 135%)

RL = Reporting Limit

Order #: 01-03-526
April 2, 2001 02:55 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG94498	R119131	L0103526-01		Soil	Volatile Organics	8260B\5035	19-MAR-2001	Volatile - GC/MS
WG94498	R119131	L0103526-02		Soil	Volatile Organics	8260B\5035	23-MAR-2001	Volatile - GC/MS
WG94813	R119446	L0103526-01		Soil	Percent Solids	D2216-90	19-MAR-2001	Conventionals
WG94813	R119446	L0103526-02		Soil	Percent Solids	D2216-90	23-MAR-2001	Conventionals

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/28/2001

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ADH - ANGELA D. HURST
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JWS - JACK W. SHEAVES
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KDS - KRISTI D. STONE
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RLW - RON L. WATSON
RSH - RENEE S. HENNES
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RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
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SPS - STEVE P. SWATZEL
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TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

Kemron Environmental Services -OVL
Volatile Quality Control Summary - 8260

Workgroup:	WG94498	Run Date: 3/26/2001	Sample Number: 03526-01	LCS DF:	1
Method:	8260B	Instrument: HPMS11	Sample Filename: 11M2499.D	Sample DF:	1
Matrix:	Soil	Blank Filename: 11M2496.D	MS Filename: 11M2500.D	MS DF:	1
Units:	ug/kg	LCS Filename: 11M2497.D	MSD Filename: 11M2501.D	MSD DF:	1

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	1.00	ND	23.48	ND	24.43	22.50	20.0	ND	117.4	ND	122.2	112.5	70.0	130.0	8.2	28.0					
chloromethane	2.00	ND	19.84	ND	21.57	19.48	20.0	ND	99.2	ND	107.9	97.4	32.0	189.0	10.2	96.0					
vinyl chloride	1.00	ND	21.22	ND	23.42	21.64	20.0	ND	106.1	ND	117.1	108.2	59.0	172.0	7.9	69.0					
bromomethane	1.00	ND	17.25	ND	18.62	17.29	20.0	ND	86.3	ND	93.1	86.5	38.0	164.0	7.4	77.0					
chloroethane	1.00	ND	21.79	ND	25.02	22.08	20.0	ND	109.0	ND	125.1	110.4	46.0	175.0	12.5	80.0					
trichlorofluoromethane	1.00	ND	23.22	ND	16.03	15.61	20.0	ND	116.1	ND	80.2	78.1	37.0	168.0	2.7	22.0					
acetone	2.50	ND	18.18	ND	20.57	16.82	20.0	ND	90.9	ND	102.9	84.1	10.0	179.0	112.0	51.0					H
1,1-dichloroethene	0.50	ND	18.70	ND	20.90	19.70	20.0	ND	93.5	ND	104.5	98.5	70.0	137.0	5.9	32.0					
iodomethane	1.00	ND	28.84	ND	28.69	28.59	20.0	ND	144.2	ND	143.5	143.0	10.0	247.0	0.3	164.0					
methylene chloride	1.00	ND	19.19	ND	22.35	20.51	20.0	ND	96.0	ND	111.8	102.6	70.0	131.0	8.6	36.0					
carbon disulfide	0.50	ND	18.14	ND	19.71	18.85	20.0	ND	90.7	ND	98.6	94.3	49.0	154.0	4.5	64.0					
methyl-tert-butyl ether	0.50	ND	19.29	ND	23.59	23.31	20.0	ND	96.5	ND	118.0	116.6	62.1	NA	1.2	52.0					
trans-1,2-dichloroethene	0.50	ND	18.75	ND	20.35	19.69	20.0	ND	93.8	ND	101.8	98.5	70.0	130.0	3.3	26.0					
n-hexane	0.50	ND	17.98	ND	16.48	14.91	20.0	ND	89.9	ND	82.4	74.6	51.0	151.0	10.0	61.0					
vinyl acetate	1.00	ND	7.14	ND	7.68	6.23	20.0	ND	35.7	ND	38.4	31.2	10.0	179.0	20.8	105					
1,1-dichloroethane	1.00	ND	18.82	ND	20.51	19.82	20.0	ND	94.1	ND	102.6	99.1	70.0	130.0	3.4	26.0					
2-butanone	2.50	ND	17.58	ND	19.98	17.04	20.0	ND	87.9	ND	99.9	85.2	29.0	159.0	15.9	79.0					
2,2-dichloropropane	0.50	ND	16.95	ND	19.96	19.06	20.0	ND	84.8	ND	99.8	95.3	70.0	136.0	4.6	35.0					
cis-1,2-dichloroethene	0.50	ND	17.38	10.39	36.74	37.89	20.0	ND	86.9	10.39	131.8	137.5	70.0	130.0	3.1	29.0			H	H	
chloroform	0.50	ND	20.11	ND	22.52	21.05	20.0	ND	100.6	ND	112.6	105.3	70.0	131.0	6.7	29.0					
bromochloromethane	0.50	ND	18.68	ND	21.09	19.19	20.0	ND	93.4	ND	105.5	96.0	65.0	140.0	9.4	56.0					
1,1,1-trichloroethane	0.50	ND	17.30	ND	20.74	20.18	20.0	ND	86.5	ND	103.7	100.9	70.0	138.0	2.7	36.0					
1,1-dichloropropene	0.50	ND	19.99	ND	25.40	24.22	20.0	ND	100.0	ND	127.0	121.1	70.0	159.0	4.8	43.0					
carbon tetrachloride	0.50	ND	16.88	ND	19.72	19.50	20.0	ND	84.4	ND	98.6	97.5	70.0	144.0	1.1	41.0					
1,2-dichloroethane	0.50	ND	18.68	ND	21.23	20.06	20.0	ND	93.4	ND	106.2	100.3	70.0	130.0	5.7	51.0					
benzene	0.50	ND	17.40	ND	20.75	20.19	20.0	ND	87.0	ND	103.8	101.0	70.0	130.0	2.7	20.0					
trichloroethene	0.50	ND	17.24	747.84	1390.63	1432.96	20.0	ND	86.2	747.84	3214.0	3425.6	70.0	130.0	3.0	22.0			H	H	
1,2-dichloropropane	0.50	ND	16.06	ND	20.62	19.94	20.0	ND	80.3	ND	103.1	99.7	70.0	130.0	3.4	25.0					
bromodichloromethane	0.50	ND	19.30	ND	22.08	22.07	20.0	ND	96.5	ND	110.4	110.4	70.0	136.0	0.0	31.0					
dibromomethane	0.50	ND	18.55	ND	19.91	18.09	20.0	ND	92.8	ND	99.6	90.5	70.0	130.0	9.6	28.0					
2-chloroethylvinyl ether	0.50	ND	19.99	ND	20.31	19.01	20.0	ND	100.0	ND	101.6	95.1	10.0	246.0	6.6	182.0					
4-methyl-2-pentanone	2.50	ND	16.74	ND	17.29	15.16	20.0	ND	83.7	ND	86.5	75.8	45.0	153.0	13.1	67.0					
cis-1,3-dichloropropene	0.50	ND	18.81	ND	23.81	22.47	20.0	ND	94.1	ND	119.1	112.4	70.0	141.0	5.8	39.0					
toluene	0.50	ND	18.28	ND	19.45	18.67	20.0	ND	91.4	ND	97.3	93.4	70.0	130.0	4.1	26.0					
trans-1,3-dichloropropene	0.50	ND	17.27	ND	21.03	20.39	20.0	ND	86.4	ND	105.2	102.0	70.0	130.0	3.1	27.0					
1,1,2-trichloroethane	0.50	ND	17.64	ND	20.49	19.30	20.0	ND	88.2	ND	102.5	96.5	70.0	130.0	6.0	22.0					
2-hexanone	2.50	ND	17.54	ND	17.51	15.67	20.0	ND	87.7	ND	87.6	78.4	42.0	138.0	11.1	59.0					
1,3-dichloropropane	0.50	ND	17.07	ND	20.07	19.20	20.0	ND	85.4	ND	100.4	96.0	70.0	130.0	4.4	24.0					
tetrachloroethene	0.50	ND	18.26	ND	18.18	17.37	20.0	ND	91.3	ND	90.9	86.9	70.0	130.0	4.6	24.0					
dibromochloromethane	0.50	ND	17.83	ND	22.12	20.94	20.0	ND	89.2	ND	110.6	104.7	70.0	130.0	5.5	29.0					
1,2-dibromoethane	0.50	ND	17.83	ND	20.12	18.64	20.0	ND	89.2	ND	100.6	93.2	70.0	130.0	7.6	22.0					
1-chlorohexane	0.50	ND	18.63	ND	17.29	16.36	20.0	ND	93.2	ND	86.5	81.8	70.0	139.0	5.5	40.0					
chlorobenzene	0.50	ND	18.40	ND	19.08	17.96	20.0	ND	92.0	ND	95.4	89.8	70.0	130.0	6.0	20.0					
1,1,1,2-tetrachloroethane	0.50	ND	18.09	ND	20.07	19.09	20.0	ND	90.5	ND	100.4	95.5	70.0	131.0	5.0	29.0					
ethylbenzene	0.50	ND	20.03	ND	21.22	20.87	20.0	ND	100.2	ND	106.1	104.4	70.0	130.0	1.7	20.0					
m+p-xylene	0.50	ND	39.71	ND	42.48	39.75	40.0	ND	99.3	ND	106.2	99.4	70.0	130.0	6.6	33.0					
o-xylene	0.50	ND	19.81	ND	21.61	20.24	20.0	ND	99.1	ND	108.1	101.2	70.0	130.0	6.5	21.0					
styrene	0.50	ND	19.42	ND	20.23	18.72	20.0	ND	97.1	ND	101.2	93.6	70.0	130.0	7.8	26.0					
bromoform	0.50	ND	16.69	ND	17.18	15.93	20.0	ND	83.5	ND	85.9	79.7	70.0	130.0	7.6	33.0					
isopropylbenzene	0.30	ND	20.48	ND	20.94	19.48	20.0	ND	102.4	ND	104.7	97.4	85.0	124.0	7.2	15.0					
1,1,2,2-tetrachloroethane	0.50	ND	17.97	ND	18.61	16.85	20.0	ND	89.9	ND	93.1	84.3	70.0	130.0	9.9	28.0					
1,2,3-trichloropropane	0.64	ND	19.84	ND	21.22	18.75	20.0	ND	99.2	ND	106.1	93.8	70.0	130.0	12.4	28.0					
propyl-benzene	0.50	ND	18.62	ND	18.30	16.68	20.0	ND	93.1	ND	91.5	83.4	70.0	130.0	9.3	26.0					
bromobenzene	0.50	ND	17.69	ND	17.70	17.30	20.0	ND	88.5	ND	88.5	86.5	70.0	130.0	2.3	22.0					
1,3,5-trimethylbenzene	0.50	ND	19.85	ND	20.32	18.09	20.0	ND	99.3	ND	101.6	90.5	70.0	130.0	11.6	22.0					
2-chlorotoluene	0.50	ND	18.95	ND	18.05	16.84	20.0	ND	94.8	ND	90.3	84.2	70.0	130.0	6.9	24.0					
4-chlorotoluene	0.50	ND	17.76	ND	17.80	16.50	20.0	ND	88.8	ND	89.0	82.5	70.0	130.0	7.6	23.0					
tert-butyl-benzene	0.50	ND	19.38	ND	20.05	18.31	20.0	ND	96.9	ND	100.3	91.6	70.0	130.0	9.1	30.0					
1,2,4-trimethylbenzene	0.50	ND	20.07	ND	19.99	17.97	20.0	ND	100.4	ND	100.0	89.9	70.0	130.0	10.6	22.0					
sec-butyl-benzene	0.50	ND	18.70	ND	17.69	15.67	20.0	ND	93.5	ND	88.5	78.4	70.0	130.0	12.1	26.0					
p-isopropyl-toluene	0.50	ND	18.46	ND	16.78	14.97	20.0	ND	92.3	ND	83.9	74.9	70.0	130.0	11.4	21.0					
1,3-dichlorobenzene	0.50	ND	17.75	ND	16.13	14.12	20.0	ND	88.8	ND	80.7	70.6	70.0	130.0	13.3	20.0					
1,4-dichlorobenzene	0.50	ND	17.83	ND	16.12	14.32	20.0	ND	89.2	ND	80.6	71.6	70.0	130.0	11.8	20.0					
n-butyl-benzene	0.50	ND	18.97	ND	14.94	12.59	20.0	ND	94.9	ND	74.7	63.0	70.0	130.0	17.1	29.0				L	
1,2-dichlorobenzene	0.50	ND	18.32	ND	16.68	14.79	20.0	ND	91.6	ND	83.4	74.0	70.0	130.0	12.0	20.0					
1,2-dibromo-3-chloropropane	0.50	ND	18.87	ND	19.44	15.65	20.0	ND	94.4	ND	97.2	78.3	63.0	131.0	21.6	20.0					H
1,2,4-trichlorobenzene	0.50	ND	19.06	ND	12.99	11.06	20.0	ND	95.3	ND	65.0	55.3	70.0	130.0	16.0	25.0			L	L	
hexachlorobutadiene	0.50	ND	18.57	ND	13.92	11.23	20.0	ND	92.9	ND	69.6	56.2	70.0	130.0	21.4	29.0			L	L	
naphthalene	0.50	ND	17.58	ND	14.12	12.14	20.0	ND	87.9	ND	70.6	60.7	59.0	130.0	15.1	43.0					
1,2,3-trichlorobenzene	0.50	ND	18.93	ND	12.92	10.83	20.0	ND	94.7	ND	64.6	54.2	70.0	130.0	17.6	29.0			L	L	
Surrogates																					
dibromofluoromethane		41.31	41.38	39.62	43.55	40.48	50.0	82.6	82.8	79.2	87.1	81.0	80	120				L			
1,2-dichloroethane-d4		44.36	43.57	42.55	47.28	43.49	50.0	88.7	87.1	85.1	94.6	87.0	80	120							
toluene-d8		46.69	45.66	48.23	49.36	46.70	50.0	93.4	91.3	96.5	98.7	93.4	81	117							
p-bromofluorobenzene		51.98	48.63	55.44	55.07	53.40	50.0	104.0	97.3	110.9	110.1	106.8	74	121							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

Kemron Environmental Services -OVL

Volatile Quality Control Summary

Workgroup #:	WG94578	Run Date: 03/27/2001	Sample: 03-350-01	LCS DF:	100
Method:	8260B	Instrument ID: HPMS10	Smple Flnm: 10M9892.D	Sample DF:	100
Matrix:	SOIL	BLK FLNM: 10M9886.D	Dup Flnm: 10M9894.D	DUP DF:	100
Units:	ug/Kg	LCS FLNM: 10M9887.D			

		CONCENTRATION, PPB					PERCENT RECOVERY						PERCENT RPD		OUTLIERS			
	RDL	Blank	LCS	LCS Spike Level	Sample	DUP	BLK	LCS	LCS LCL	LCS UCL	SMPL	DUP	RPD	RPD UCL	Blank	LCS	Sample	RPD
Target Analytes	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	%	%	%	%	%	%	%	%				
dichlorodifluoromethane	1000.0	ND	2136.3	2000.0	ND	ND	NA	106.8	19.0	175.0	ND	ND	NA	64.0				
chloromethane	1000.0	ND	1778.3	2000.0	ND	ND	NA	88.9	54.0	144.0	ND	ND	NA	38.0				
vinyl chloride	1000.0	ND	1507.3	2000.0	ND	ND	NA	75.4	67.0	141.0	ND	ND	NA	70.0				
bromomethane	1000.0	113.6	2017.9	2000.0	ND	ND	NA	100.9	67.0	143.0	ND	ND	NA	41.0				
chloroethane	1000.0	ND	1886.6	2000.0	ND	ND	NA	94.3	71.0	135.0	ND	ND	NA	52.0				
trichlorofluoromethane	1000.0	ND	1725.0	2000.0	ND	ND	NA	86.3	68.0	151.0	ND	ND	NA	38.0				
isoprene	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
acrolein	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
freon 113	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
acetone	10000.0	ND	1537.0	2000.0	ND	ND	NA	76.8	70.0	161.0	ND	ND	NA	53.0				
1,1-dichloroethene	500.0	ND	2357.3	2000.0	ND	ND	NA	117.9	83.0	133.0	ND	ND	NA	25.0				
dimethyl sulfide	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
iodomethane	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
methylene chloride	500.0	ND	2155.0	2000.0	ND	ND	NA	107.7	70.0	130.0	ND	ND	NA	23.0				
carbon disulfide	500.0	ND	2352.7	2000.0	ND	ND	NA	117.6	65.0	135.0	ND	ND	NA	20.0				
acrylonitrile	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
methyl-tert-butyl ether	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
trans-1,2-dichloroethene	500.0	ND	2400.7	2000.0	ND	ND	NA	120.0	81.0	145.0	ND	ND	NA	25.0				
n-hexane	500.0	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
vinyl acetate	1000.0	ND	902.2	2000.0	ND	ND	NA	45.1	10.0	156.0	ND	ND	NA	61.0				
1,1-dichloroethane	500.0	ND	2108.2	2000.0	ND	ND	NA	105.4	86.0	126.0	ND	ND	NA	24.0				
2-butanone	10000.0	ND	1859.0	2000.0	ND	ND	NA	92.9	39.0	159.0	ND	ND	NA	40.0				
2,2-dichloropropane	500.0	ND	2041.1	2000.0	ND	ND	NA	102.1	70.0	134.0	ND	ND	NA	20.0				
cis-1,2-dichloroethene	500.0	ND	2199.1	2000.0	ND	ND	NA	110.0	78.0	129.0	ND	ND	NA	18.0				
chloroform	500.0	ND	2092.7	2000.0	ND	ND	NA	104.6	81.0	126.0	ND	ND	NA	16.0				
bromochloromethane	500.0	ND	2190.4	2000.0	ND	ND	NA	109.5	81.0	129.0	ND	ND	NA	22.0				
1,1,1-trichloroethane	500.0	ND	2139.2	2000.0	ND	ND	NA	107.0	77.0	130.0	ND	ND	NA	21.0				
cyclohexane	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
1,1-dichloropropene	500.0	ND	2592.5	2000.0	ND	ND	NA	129.6	92.0	136.0	ND	ND	NA	20.0				
carbon tetrachloride	500.0	ND	2095.4	2000.0	ND	ND	NA	104.8	76.0	132.0	ND	ND	NA	25.0				
1,2-dichloroethane	500.0	ND	1951.5	2000.0	ND	ND	NA	97.6	78.0	128.0	ND	ND	NA	21.0				
benzene	500.0	ND	2206.5	2000.0	ND	ND	NA	110.3	86.0	122.0	ND	ND	NA	18.0				
trichloroethene	500.0	ND	2315.1	2000.0	ND	ND	NA	115.8	84.0	125.0	ND	ND	NA	19.0				
1,2-dichloropropane	500.0	ND	2122.8	2000.0	ND	ND	NA	106.1	83.0	125.0	ND	ND	NA	22.0				
bromodichloromethane	500.0	ND	2145.9	2000.0	ND	ND	NA	107.3	80.0	130.0	ND	ND	NA	16.0				
dibromomethane	500.0	ND	2056.6	2000.0	ND	ND	NA	102.8	80.0	127.0	ND	ND	NA	20.0				
2-chloroethylvinyl-ether	1000.0	ND	2721.6	2000.0	ND	ND	NA	136.1	50.0	154.0	ND	ND	NA	32.0				
4-methyl-2-pentanone	1000.0	ND	2002.7	2000.0	ND	ND	NA	100.1	48.0	158.0	ND	ND	NA	34.0				
cis-1,3-dichloropropene	500.0	ND	2432.7	2000.0	ND	ND	NA	121.6	85.0	127.0	ND	ND	NA	20.0				
dimethyl disulfide	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
toluene	500.0	ND	2264.1	2000.0	388.0	960.3	NA	113.2	85.0	123.0	388.0	960.3	84.9	18.0				H
ethyl methacrylate	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
trans-1,3-dichloropropene	500.0	ND	2105.0	2000.0	ND	ND	NA	105.2	82.0	124.0	ND	ND	NA	22.0				
1,1,2-trichloroethane	500.0	ND	2152.0	2000.0	ND	ND	NA	107.6	82.0	126.0	ND	ND	NA	21.0				
2-hexanone	1000.0	ND	1859.6	2000.0	ND	ND	NA	93.0	38.0	130.0	ND	ND	NA	32.0				
1,3-dichloropropane	500.0	ND	2061.5	2000.0	ND	ND	NA	103.1	84.0	104.0	ND	ND	NA	23.0				
tetrachloroethene	500.0	ND	2324.4	2000.0	ND	ND	NA	116.2	83.0	126.0	ND	ND	NA	22.0				
dibromochloromethane	500.0	ND	2147.9	2000.0	ND	ND	NA	107.4	82.0	126.0	ND	ND	NA	22.0				
1,2-dibromoethane	500.0	ND	2101.9	2000.0	ND	ND	NA	105.1	81.0	128.0	ND	ND	NA	20.0				
1-chlorohexane	NTC	ND	NS	NS	ND	ND	NA	NA	60.0	140.0	ND	ND	NA	NA				
chlorobenzene	500.0	ND	2190.3	2000.0	2982.7	7408.2	NA	109.5	86.0	125.0	2982.7	7408.2	85.2	16.0				H
1,1,1,2-tetrachloroethane	500.0	ND	2188.5	2000.0	ND	ND	NA	109.4	83.0	127.0	ND	ND	NA	19.0				
ethylbenzene	500.0	ND	2275.3	2000.0	378.5	1039.4	NA	113.8	86.0	125.0	378.5	1039.4	93.2	16.0				H
m+p-xylene	500.0	ND	4586.1	4000.0	385.4	876.2	NA	114.7	86.0	123.0	385.4	876.2	77.8	29.0				H
o-xylene	500.0	ND	2269.1	2000.0	902.7	1322.5	NA	113.5	87.0	124.0	902.7	1322.5	37.7	16.0				H
styrene	500.0	ND	2283.9	2000.0	ND	ND	NA	114.2	83.0	124.0	ND	ND	NA	16.0				
bromoform	500.0	ND	2068.9	2000.0	ND	ND	NA	103.4	64.0	132.0	ND	ND	NA	17.0				
isopropylbenzene	500.0	ND	2306.7	2000.0	ND	ND	NA	115.3	85.0	124.0	ND	ND	NA	16.0				
1,1,2,2-tetrachloroethane	500.0	ND	2036.5	2000.0	ND	ND	NA	101.8	72.0	140.0	ND	ND	NA	32.0				
1,2,3-trichloropropane	500.0	ND	2015.5	2000.0	ND	ND	NA	100.8	70.0	144.0	ND	ND	NA	24.0				
trans-1,4-dichloro-2-butene	NTC	ND	NS	NS	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
propyl-benzene	500.0	ND	2427.2	2000.0	ND	57.3	NA	121.4	84.0	126.0	ND	57.3	200.0	17.0				H
bromobenzene	500.0	ND	2203.3	2000.0	ND	ND	NA	110.2	85.0	121.0	ND	ND	NA	18.0				
1,3,5-trimethylbenzene	500.0	ND	2341.6	2000.0	145.7	201.8	NA	117.1	86.0	124.0	145.7	201.8	32.3	17.0				H
2-chlorotoluene	500.0	ND	2158.6	2000.0	ND	ND	NA	107.9	81.0	127.0	ND	ND	NA	23.0				
4-chlorotoluene	500.0	ND	2250.3	2000.0	ND	ND	NA	112.5	84.0	125.0	ND	ND	NA	17.0				
alpha-methyl-styrene	NTC	ND	NS	2000.0	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA				
tert-butyl-benzene	500.0	ND	2427.6	2000.0	ND	ND	NA	121.4	83.0	125.0	ND	ND	NA	17.0				
1,2,4-trimethylbenzene	500.0	ND	2262.9	2000.0	ND	ND	NA	113.1	87.0	124.0	ND	ND	NA	16.0				
sec-butyl-benzene	500.0	ND	2214.6	2000.0	ND	ND	NA	110.7	83.0	126.0	ND	ND	NA	17.0				
p-isopropyl-toluene	500.0	ND	2231.1	2000.0	ND	ND	NA	111.6	83.0	122.0	ND	ND	NA	16.0				
1,3-dichlorobenzene	500.0	ND	2162.7	2000.0	ND	ND	NA	108.1	85.0	121.0	ND	ND	NA	16.0				
1,4-dichlorobenzene	500.0	ND	2108.9	2000.0	510.3	877.8	NA	105.4	84.0	119.0	510.3	877.8	53.0	16.0				H
n-butyl-benzene	500.0	ND	2282.6	2000.0	ND	ND	NA	114.1	81.0	128.0	ND	ND	NA	17.0				
1,2-dichlorobenzene	500.0	ND	2100.3	2000.0	5074.3	7029.1	NA	105.0	86.0	123.0	5074.3	7029.1	32.3	16.0				H
1,2-dibromo-3-chloropropane	500.0	ND	1700.2	2000.0	ND	ND	NA	85.0	51.0	151.0	ND	ND	NA	27.0				
1,2,4-trichlorobenzene	500.0	99.9	1620.6	2000.0	165.1	251.6	NA	81.0	74.0	126.0	165.1	251.6	41.5	21.0				H
hexachlorobutadiene	500.0	108.4	1970.3	2000.0	ND	ND	NA	98.5	73.0	131.0	ND	ND	NA	27.0				
napthalene	1000.0	144.0	1333.2	2000.0	701.4	1313.0	NA	66.7	61.0	142.0	701.4	1313.0	60.7	26.0				H
1,2,3-trichlorobenzene	500.0	236.5	1161.5	2000.0	ND	ND	NA	58.1	72.0	130.0	ND	ND	NA	23.0		L		
Surrogates																		
dibromofluoromethane		24.1	24.5	25.0	24.0	23.5	96.5	97.8	65	135	95.9	94.1						
1,2-dichloroethane-d4		20.3	21.2	25.0	21.4	20.4	81.1	84.6	65	135	85.5	81.5						
toluene-d8		25.6	25.5	25.0	25.0	25.1	102.4	102.04	65	135	100.1	100.2						
p-bromofluorobenzene		24.5	24.5	25.0	25.9	26.4	97.8	98.08	52	149	103.6	105.7						

Notes and Definitions:
MDL= Method Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample

SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit

RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
NS=Not spiked

ND= Not Detected

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

***** Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

DAIMLERCHRYSLER — Chain-of-Custody

0631 B

Offsite Drilling

~~Lancaster Laboratories~~ Kemron	Project Name: Dayton Thermal Products	Consultant: Leggette Brashears + Graham, Inc.
~~2425 New Holland Pike~~ 109 Starlite Park	Site Location: 1600 Webster St. Dayton OH 45414	Address: 1210 West County Rd E Suite 700
~~Lancaster, PA 17601~~ Marietta OH 45750	Site Code: SC001	St. Paul MN 55112
Phone Number: ~~(717) 656-2300~~ 740-373 4071	RFA Number: TGQP2001207 (207D)	Consultant PM Ken Vogel
Fax Number: ~~(717) 656-2681~~	DaimlerChrysler PM: Gary Stanczuk	Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request: (circle)
- 24 calendar hrs.
- 48 calendar hrs.
- 7 calendar days
- 14 calendar days

Data Package Deliverables: (circle)
- DaimlerChrysler Level 1
- DaimlerChrysler Level 2
- CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed - Sediment; O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VCC ~~5030B~~/5035/8260B								Remarks
MW-29S 28 feet	3/19/01	1440	G	S	1	X								PID = 115 ppm
PZ-26I 50 feet	3/23/01	1040	G	S	1	X								PID = 11 ppm
														Sbuntact

Sampler(s): Mike Plante	Cooler ID # —		Samples Relinquished under Airbill No. 824181891804			Temperature (corrected) 4 C	
	Relinquished by: [signature]	Date: 3/23/01	Time: 1710	Received by:	Date:	Time:	Custody Seal Intact? Yes No (Yes)
Is RFA sampling complete? Yes No (No)	Relinquished by:	Date:	Time:	Received for Laboratory by: Bunda Gregory	Date: 3/24/01	Time: 1140	Custody Seal Intact? (Yes) No

SDG 207D

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

KEMRON Internal Laboratory Chain of Custody

Work Order: L010 ~~3527~~ 524 bg 3/26/01 **Client:** Compuchem **# of Samples:** 2 **Due Date:** 4-2-01 **Page:** ____

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
1,2 A	8260-SL	anal	aus 3-26-01 @1515	V-1	VOA	Brg	LLN 3/30/01 @1340	LOGIN	aus	STORAGE
1,2A	PCTS	test	TMM 3/30/01 @1345	walk in	wet	aus	TMM 3/30/01 @1530	archive	Brg	archive

KEMRON Environmental Services | **SAMPLES RECEIPT FORM #1** | Marietta Laboratory

CLIENT: Compuchem	DATE: 3-24-01	SHIPPED BY: (✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT
~~BRG~~ ARS Other _____		

COOLER ID: Med. 9100	COOLER ID:	COOLER ID:
INDEX # : 8241 8189 1804	INDEX # :	INDEX # :
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP : (C) (D) 4 °C	TEMP : (C) (D) °C	TEMP : (C) (D) °C
TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL (✓) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) (✓) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

MAY 4 2001

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CompuChem
501 Madison Ave.
Cary, NC 27513

Attention: Diane Byrd

PO Number: 00205
Account Number: COMPUCHEM-529
Invoice Number: 551899

Login #: L0104002
Report Date: 05/02/01
Work ID: SC001/OFFSITE DRILLING
Date Received: 03/31/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0104002-01	PZ-28I/41'	L0104002-02	PZ-24I/38'

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

David L Bumgarner

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0104002

CHAIN OF CUSTODY:

The chain of custody number was 0267.

SHIPMENT CONDITIONS:

The chain of custody was received sealed in the cooler. The cooler temperature was 4° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Melissa Grimes DATE: 4-2-01

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0104002

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 04/05/01 on HPMS-6 yielded a % recovery for dichlorodifluoromethane that was above the upper advisory limits. All other acceptance criteria were met.

Matrix Spikes: Samples 01 and 02 were chosen internally for MS/MSD analyses and yielded % recoveries and % RPD's for multiple compounds that were outside of the advisory limits.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: Sample fractions 01 and 02 required dilution analyses in order to obtain results within the linear range of the instrument. All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: CMS REVIEWED: Stephanie A. Lipe DATE: 4/13/01

Login #L0104002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0104002-01
Client Sample ID: PZ-28I/41'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/28/01 10:35

% Solid: 90
COC Info: 0267/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	90		1.0	1	N/A	TMM	04/05/01	13:00	D2216-90

RL = Reporting Limit

Login #L0104002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0104002-01
Client Sample ID: PZ-28I /41'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0267/
Date Collected: 03/28/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 90

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/04/01 Time: 18:08

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M25105

Method: 8260B\5035
Run ID: R119865
Batch : WG95014

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	110	1
71-43-2	Benzene	ug/kg		ND	5.6	1
108-86-1	Bromobenzene	ug/kg		ND	5.6	1
74-97-5	Bromochloromethane	ug/kg		ND	5.6	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.6	1
75-25-2	Bromoform	ug/kg		ND	5.6	1
74-83-9	Bromomethane	ug/kg		ND	11	1
78-93-3	2-Butanone	ug/kg		ND	110	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.6	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.6	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.6	1
75-15-0	Carbon disulfide	ug/kg		ND	5.6	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.6	1
108-90-7	Chlorobenzene	ug/kg		ND	5.6	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.6	1
75-00-3	Chloroethane	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	11	1
67-66-3	Chloroform	ug/kg		ND	5.6	1
74-87-3	Chloromethane	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.6	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.6	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.6	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.6	1
74-95-3	Dibromomethane	ug/kg		ND	5.6	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.6	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.6	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.6	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.6	1
107-06-2	1,2-Dichloroethane	ug/kg	1.2	J	5.6	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.6	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	80		5.6	1
156-60-5	trans-1,2-Dichloroethene	ug/kg	0.91	J	5.6	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.6	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.6	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.6	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.6	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.6	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.6	1

RL = Reporting Limit

Login #L0104002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0104002-01
Client Sample ID: PZ-28I /41'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0267/
Date Collected: 03/28/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 90

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/04/01 Time: 18:08

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M25105

Method: 8260B\5035
Run ID: R119865
Batch : WG95014

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.6	1
110-54-3	n-Hexane	ug/kg		ND	11	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.6	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.6	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.6	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.6	1
91-20-3	Naphthalene	ug/kg	0.73	J	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.6	1
100-42-5	Styrene	ug/kg		ND	5.6	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.6	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.6	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.6	1
108-88-3	Toluene	ug/kg		ND	5.6	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.6	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.6	1
71-55-6	1,1,1-Trichloroethane	ug/kg	12		5.6	1
79-00-5	1,1,2-Trichloroethane	ug/kg	0.68	J	5.6	1
79-01-6	Trichloroethene	ug/kg	2900	D	560	100
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.6	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.6	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.6	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1
75-01-4	Vinyl chloride	ug/kg		ND	2.2	1
95-47-6	o-Xylene	ug/kg		ND	5.6	1
108-38-3	m-Xylene	ug/kg		ND	5.6	1
106-42-3	p-Xylene	ug/kg		ND	5.6	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	103	(80 - 120%)
1,2-Dichloroethane-d4	107	(80 - 120%)
Toluene-d8	103	(81 - 117%)
4-Bromofluorobenzene	104	(74 - 121%)

RL = Reporting Limit

Login #L0104002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0104002-02
Client Sample ID: PZ-24I/38'
Site/Work ID: SC001/OFFSITE DRILLING

Matrix: Soil
Collected: 03/28/01 14:30

% Solid: 85
COC Info: 0267/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	85		1.0	1	N/A	TMM	04/05/01	13:00	D2216-90

RL = Reporting Limit

Login #L0104002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0104002-02
Client Sample ID: PZ-24I/38'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0267/
Date Collected: 03/28/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 85

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/04/01 Time: 23:46

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M25115

Method: 8260B\5035
Run ID: R119866
Batch : WG95014

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	6.1	J	120	1
71-43-2	Benzene	ug/kg		ND	5.9	1
108-86-1	Bromobenzene	ug/kg		ND	5.9	1
74-97-5	Bromochloromethane	ug/kg		ND	5.9	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.9	1
75-25-2	Bromoform	ug/kg		ND	5.9	1
74-83-9	Bromomethane	ug/kg		ND	12	1
78-93-3	2-Butanone	ug/kg		ND	120	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.9	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.9	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.9	1
75-15-0	Carbon disulfide	ug/kg		ND	5.9	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.9	1
108-90-7	Chlorobenzene	ug/kg		ND	5.9	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.9	1
75-00-3	Chloroethane	ug/kg		ND	12	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	12	1
67-66-3	Chloroform	ug/kg		ND	5.9	1
74-87-3	Chloromethane	ug/kg		ND	12	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.9	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.9	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.9	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.9	1
74-95-3	Dibromomethane	ug/kg		ND	5.9	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.9	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.9	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.9	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	12	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.9	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.9	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.9	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.9	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.9	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.9	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.9	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.9	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.9	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.9	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.9	1

RL = Reporting Limit

Login #L0104002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP2 - Volatile Organics

Lab Sample ID: L0104002-02
Client Sample ID: PZ-24I/38'
Site/Work ID: SC001/OFFSITE DRILLING
Matrix: Soil

Dil. Type: N/A
COC Info: 0267/
Date Collected: 03/28/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: 85

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/04/01 Time: 23:46

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6M25115

Method: 8260B\5035
Run ID: R119866
Batch : WG95014

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	340	D	29	5
110-54-3	n-Hexane	ug/kg		ND	12	1
591-78-6	2-Hexanone	ug/kg		ND	12	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.9	1
98-82-8	Isopropylbenzene	ug/kg	9.8		5.9	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.9	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	12	1
75-09-2	Methylene chloride	ug/kg		ND	5.9	1
91-20-3	Naphthalene	ug/kg	1.5	J	12	1
103-65-1	n-Propylbenzene	ug/kg	0.65	J	5.9	1
100-42-5	Styrene	ug/kg		ND	5.9	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.9	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.9	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.9	1
108-88-3	Toluene	ug/kg	16		5.9	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.9	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.9	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.9	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.9	1
79-01-6	Trichloroethene	ug/kg		ND	5.9	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	12	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.9	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	16		5.9	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.9	1
108-05-4	Vinyl acetate	ug/kg		ND	12	1
75-01-4	Vinyl chloride	ug/kg		ND	2.4	1
95-47-6	o-Xylene	ug/kg	190		5.9	1
108-38-3	m-Xylene	ug/kg	260	D,Z	29	5
106-42-3	p-Xylene	ug/kg		Z	29	5

SURROGATES- In Percent Recovery:

Dibromofluoromethane	85.5	(80 - 120%)
1,2-Dichloroethane-d4	92.4	(80 - 120%)
Toluene-d8	103	(81 - 117%)
4-Bromofluorobenzene	102	(74 - 121%)

RL = Reporting Limit

Order #: 01-04-002
May 2, 2001 04:23 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG95014	R119865	L0104002-01		Soil	Volatile Organics	8260B\5035	28-MAR-2001	Volatile - GC/MS
WG95014	R119866	L0104002-02		Soil	Volatile Organics	8260B\5035	28-MAR-2001	Volatile - GC/MS
WG95083	R119918	L0104002-01		Soil	Percent Solids	D2216-90	28-MAR-2001	Conventionals
WG95083	R119918	L0104002-02		Soil	Percent Solids	D2216-90	28-MAR-2001	Conventionals

Kemron Environmental Services -OVL

Volatile Quality Control Summary - 8260

Workgroup:	WG95014	Run Date:	4/4/2001	Sample Number: 04-002-01	LCS DF: 1
Method:	8260B	Instrument:	HPMS6	Sample Filename: 6M25105.D	Sample DF: 1
Matrix:	Soil	Blank Filename:	6M25103.D	MS Filename: 6M25106.D	MS DF: 1
Units:	ug/kg	LCS Filename:	6M25104.D	MSD Filename: 6M25109.D	MSD DF: 1

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	1.00	ND	22.57	ND	23.51	23.64	20.0	ND	112.9	ND	117.6	118.2	70.0	130.0	0.6	28.0					
chloromethane	2.00	ND	18.83	ND	19.42	19.46	20.0	ND	94.2	ND	97.1	97.3	32.0	189.0	0.2	96.0					
vinyl chloride	1.00	ND	19.68	ND	20.87	21.46	20.0	ND	98.4	ND	104.4	107.3	59.0	172.0	2.8	69.0					
bromomethane	1.00	ND	21.42	ND	22.59	23.69	20.0	ND	107.1	ND	113.0	118.5	38.0	164.0	4.8	77.0					
chloroethane	1.00	ND	21.15	ND	22.05	23.00	20.0	ND	105.8	ND	110.3	115.0	46.0	175.0	4.2	80.0					
trichlorofluoromethane	1.00	ND	18.00	ND	18.20	18.90	20.0	ND	90.0	ND	91.0	94.5	37.0	168.0	3.8	22.0					
acetone	2.50	2.69	9.36	3.14	18.97	16.95	20.0	2.69	46.8	3.14	79.2	69.1	10.0	179.0	112.0	51.0					H
1,1-dichloroethene	0.50	ND	18.72	ND	19.83	19.51	20.0	ND	93.6	ND	99.2	97.6	70.0	137.0	1.6	32.0					
iodomethane	1.00	ND	23.36	ND	26.11	28.17	20.0	ND	116.8	ND	130.6	140.9	10.0	247.0	7.6	164.0					
methylene chloride	1.00	ND	20.07	ND	21.53	21.68	20.0	ND	100.4	ND	107.7	108.4	70.0	131.0	0.7	36.0					
carbon disulfide	0.50	1.28	19.39	ND	19.35	20.31	20.0	1.28	97.0	ND	96.8	101.6	49.0	154.0	4.8	64.0					
methyl-tert-butyl ether	0.50	ND	19.39	ND	20.32	18.69	20.0	ND	97.0	ND	101.6	93.5	62.1	NA	8.4	52.0					
trans-1,2-dichloroethene	0.50	ND	19.57	0.82	21.52	21.54	20.0	ND	97.9	0.82	103.5	103.6	70.0	130.0	0.1	26.0					
n-hexane	0.50	ND	20.38	ND	13.00	13.79	20.0	ND	101.9	ND	65.0	69.0	51.0	151.0	5.9	61.0					
vinyl acetate	1.00	ND	5.09	ND	4.79	5.45	20.0	ND	25.5	ND	24.0	27.3	10.0	179.0	12.9	105					
1,1-dichloroethane	1.00	ND	18.94	ND	20.76	20.75	20.0	ND	94.7	ND	103.8	103.8	70.0	130.0	0.0	26.0					
2-butanone	2.50	ND	19.62	ND	22.03	19.72	20.0	ND	98.1	ND	110.2	98.6	29.0	159.0	11.1	79.0					
2,2-dichloropropane	0.50	ND	19.35	ND	19.76	20.89	20.0	ND	96.8	ND	98.8	104.5	70.0	136.0	5.6	35.0					
cis-1,2-dichloroethene	0.50	ND	18.74	71.86	97.63	42.39	20.0	ND	93.7	71.86	128.9	NA	70.0	130.0	NA	29.0					
chloroform	0.50	ND	19.66	ND	20.91	21.38	20.0	ND	98.3	ND	104.6	106.9	70.0	131.0	2.2	29.0					
bromochloromethane	0.50	ND	20.48	ND	21.46	21.09	20.0	ND	102.4	ND	107.3	105.5	65.0	140.0	1.7	56.0					
1,1,1-trichloroethane	0.50	ND	18.95	10.35	31.99	23.07	20.0	ND	94.8	10.35	108.2	63.6	70.0	138.0	32.4	36.0				L	
1,1-dichloropropene	0.50	ND	22.14	ND	23.22	24.56	20.0	ND	110.7	ND	116.1	122.8	70.0	159.0	5.6	43.0					
carbon tetrachloride	0.50	ND	19.28	ND	19.70	20.98	20.0	ND	96.4	ND	98.5	104.9	70.0	144.0	6.3	41.0					
1,2-dichloroethane	0.50	ND	20.21	1.08	21.51	21.72	20.0	ND	101.1	1.08	102.2	103.2	70.0	130.0	1.0	51.0					
benzene	0.50	ND	19.19	ND	20.65	20.84	20.0	ND	96.0	ND	103.3	104.2	70.0	130.0	0.9	20.0					
trichloroethene	0.50	ND	18.31	1312.83	1354.11	384.84	20.0	ND	91.6	1312.83	206.4	NA	70.0	130.0	NA	22.0			H		
1,2-dichloropropane	0.50	ND	19.04	5.46	22.42	21.86	20.0	ND	95.2	5.46	84.8	82.0	70.0	130.0	2.5	25.0					
bromodichloromethane	0.50	ND	21.14	ND	23.63	23.77	20.0	ND	105.7	ND	118.2	118.9	70.0	136.0	0.6	31.0					
dibromomethane	0.50	ND	20.48	ND	22.11	22.35	20.0	ND	102.4	ND	110.6	111.8	70.0	130.0	1.1	28.0					
2-chloroethylvinyl ether	0.50	ND	21.32	ND	25.46	23.56	20.0	ND	106.6	ND	127.3	117.8	10.0	246.0	7.8	182.0					
4-methyl-2-pentanone	2.50	ND	21.12	ND	24.35	21.43	20.0	ND	105.6	ND	121.8	107.2	45.0	153.0	12.8	67.0					
cis-1,3-dichloropropene	0.50	ND	23.12	ND	25.76	25.88	20.0	ND	115.6	ND	128.8	129.4	70.0	141.0	0.5	39.0					
toluene	0.50	ND	18.96	ND	19.28	20.92	20.0	ND	94.8	ND	96.4	104.6	70.0	130.0	8.2	26.0					
trans-1,3-dichloropropene	0.50	ND	18.65	ND	19.98	20.18	20.0	ND	93.3	ND	99.9	100.9	70.0	130.0	1.0	27.0					
1,1,2-trichloroethane	0.50	ND	18.43	0.61	20.60	20.01	20.0	ND	92.2	0.6	100.0	97.0	70.0	130.0	2.9	22.0					
2-hexanone	2.50	ND	18.03	ND	21.03	17.92	20.0	ND	90.2	ND	105.2	89.6	42.0	138.0	16.0	59.0					
1,3-dichloropropane	0.50	ND	18.10	ND	19.23	19.33	20.0	ND	90.5	ND	96.2	96.7	70.0	130.0	0.5	24.0					
tetrachloroethene	0.50	ND	18.09	ND	15.96	19.47	20.0	ND	90.5	ND	79.8	97.4	70.0	130.0	19.8	24.0					
dibromochloromethane	0.50	ND	18.90	ND	19.98	20.54	20.0	ND	94.5	ND	99.9	102.7	70.0	130.0	2.8	29.0					
1,2-dibromoethane	0.50	ND	18.59	ND	19.47	19.75	20.0	ND	93.0	ND	97.4	98.8	70.0	130.0	1.4	22.0					
1-chlorohexane	0.50	ND	17.73	ND	11.79	17.24	20.0	ND	88.7	ND	59.0	86.2	70.0	139.0	37.5	40.0			L		
chlorobenzene	0.50	ND	18.61	ND	16.84	19.65	20.0	ND	93.1	ND	84.2	98.3	70.0	130.0	15.4	20.0					
1,1,1,2-tetrachloroethane	0.50	ND	19.31	ND	18.74	21.03	20.0	ND	96.6	ND	93.7	105.2	70.0	131.0	11.5	29.0					
ethylbenzene	0.50	ND	18.62	ND	16.92	19.76	20.0	ND	93.1	ND	84.6	98.8	70.0	130.0	15.5	20.0					
m+p-xylene	0.50	ND	37.88	ND	32.92	40.00	40.0	ND	94.7	ND	82.3	100.0	70.0	130.0	19.4	33.0					
o-xylene	0.50	ND	19.63	ND	18.25	21.24	20.0	ND	98.2	ND	91.3	106.2	70.0	130.0	15.1	21.0					
styrene	0.50	ND	20.34	ND	17.81	21.31	20.0	ND	101.7	ND	89.1	106.6	70.0	130.0	17.9	26.0					
bromoform	0.50	ND	19.94	ND	18.27	21.06	20.0	ND	99.7	ND	91.4	105.3	70.0	130.0	14.2	33.0					
isopropylbenzene	0.30	ND	19.81	ND	15.90	20.52	20.0	ND	99.1	ND	79.5	102.6	85.0	124.0	25.4	15.0			L		H
1,1,2,2-tetrachloroethane	0.50	ND	19.05	ND	17.72	19.16	20.0	ND	95.3	ND	88.6	95.8	70.0	130.0	7.8	28.0					
1,2,3-trichloropropane	0.64	ND	20.35	ND	19.80	20.84	20.0	ND	101.8	ND	99.0	104.2	70.0	130.0	5.1	28.0					
propyl-benzene	0.50	ND	19.10	ND	14.22	19.68	20.0	ND	95.5	ND	71.1	98.4	70.0	130.0	32.2	26.0					H
bromobenzene	0.50	ND	18.65	ND	15.93	19.76	20.0	ND	93.3	ND	79.7	98.8	70.0	130.0	21.5	22.0					
1,3,5-trimethylbenzene	0.50	ND	19.07	ND	14.71	19.81	20.0	ND	95.4	ND	73.6	99.1	70.0	130.0	29.5	22.0					H
2-chlorotoluene	0.50	ND	18.99	ND	14.88	19.27	20.0	ND	95.0	ND	74.4	96.4	70.0	130.0	25.7	24.0					H
4-chlorotoluene	0.50	ND	18.70	ND	14.06	19.37	20.0	ND	93.5	ND	70.3	96.9	70.0	130.0	31.8	23.0					H
tert-butyl-benzene	0.50	ND	18.45	ND	14.20	19.01	20.0	ND	92.3	ND	71.0	95.1	70.0	130.0	29.0	30.0					
1,2,4-trimethylbenzene	0.50	ND	18.98	ND	14.63	19.51	20.0	ND	94.9	ND	73.2	97.6	70.0	130.0	28.6	22.0					H
sec-butyl-benzene	0.50	ND	18.26	ND	11.85	17.70	20.0	ND	91.3	ND	59.3	88.5	70.0	130.0	39.6	26.0			L		H
p-isopropyl-toluene	0.50	ND	18.73	ND	12.09	18.15	20.0	ND	93.7	ND	60.5	90.8	70.0	130.0	40.1	21.0			L		H
1,3-dichlorobenzene	0.50	ND	18.16	ND	12.70	18.36	20.0	ND	90.8	ND	63.5	91.8	70.0	130.0	36.4	20.0			L		H
1,4-dichlorobenzene	0.50	ND	18.30	ND	12.98	18.09	20.0	ND	91.5	ND	64.9	90.5	70.0	130.0	32.9	20.0			L		H
n-butyl-benzene	0.50	ND	19.12	ND	10.13	16.84	20.0	ND	95.6	ND	50.7	84.2	70.0	130.0	49.8	29.0			L		H
1,2-dichlorobenzene	0.50	ND	18.74	ND	13.02	18.20	20.0	ND	93.7	ND	65.1	91.0	70.0	130.0	33.2	20.0			L		H
1,2-dibromo-3-chloropropane	0.50	ND	20.37	ND	16.76	18.52	20.0	ND	101.9	ND	83.8	92.6	63.0	131.0	10.0	20.0					
1,2,4-trichlorobenzene	0.50	ND	19.36	ND	8.48	14.85	20.0	ND	96.8	ND	42.4	74.3	70.0	130.0	54.6	25.0			L		H
hexachlorobutadiene	0.50	ND	18.74	ND	7.22	13.25	20.0	ND	93.7	ND	36.1	66.3	70.0	130.0	58.9	29.0			L	L	H
naphthalene	0.50	ND	20.17	0.66	11.95	16.05	20.0	ND	100.9	0.7	56.5	77.0	59.0	130.0	29.3	43.0			L		
1,2,3-trichlorobenzene	0.50	ND	19.63	ND	8.17	14.16	20.0	ND	98.2	ND	40.9	70.8	70.0	130.0	53.6	29.0			L		H
Surrogates																					
dibromofluoromethane		52.39	50.34	51.48	49.75	49.61	50.0	104.8	100.7	103.0	99.5	99.2	80	120							
1,2-dichloroethane-d4		56.88	53.21	53.44	51.46	51.32	50.0	113.8	106.4	106.9	102.9	102.6	80	120							
toluene-d8		48.93	48.85	51.67	51.70	50.52	50.0	97.9	97.7	103.3	103.4	101.0	81	117							
p-bromofluorobenzene		49.05	51.74	52.05	52.70	52.56	50.0	98.1	103.5	104.1	105.4	105.1	74	121							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

Kemron Environmental Services -OVL
Volatile Quality Control Summary - 8260

Workgroup:	WG95042	Run Date:	4/5/2001	Sample Number:	04-002-02	LCS DF:	1
Method:	8260B	Instrument:	HPMS6	Sample Filename:	6M25126.D	Sample DF:	5
Matrix:	Soil	Blank Filename:	6M25121.D	MS Filename:	6M25124.D	MS DF:	5
Units:	ug/kg	LCS Filename:	6M25122.D	MSD Filename:	6M25125.D	MSD DF:	5

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	1.00	ND	28.16	ND	142.57	138.78	100.0	ND	140.8	ND	142.6	138.8	70.0	130.0	2.7	28.0		H	H	H	
chloromethane	2.00	ND	24.53	ND	114.13	111.73	100.0	ND	122.7	ND	114.1	111.7	32.0	189.0	2.1	96.0					
vinyl chloride	1.00	ND	24.54	ND	126.93	121.11	100.0	ND	122.7	ND	126.9	121.1	59.0	172.0	4.7	69.0					
bromomethane	1.00	ND	27.76	ND	132.23	134.37	100.0	ND	138.8	ND	132.2	134.4	38.0	164.0	1.6	77.0					
chloroethane	1.00	ND	26.98	ND	133.27	131.09	100.0	ND	134.9	ND	133.3	131.1	46.0	175.0	1.6	80.0					
trichlorofluoromethane	1.00	ND	18.81	ND	100.82	98.08	100.0	ND	94.1	ND	100.8	98.1	37.0	168.0	2.8	22.0					
acetone	2.50	ND	13.33	18.16	76.70	81.26	100.0	ND	66.7	18.16	58.5	63.1	10.0	179.0	112.0	51.0					H
1,1-dichloroethene	0.50	ND	19.49	ND	103.07	105.68	100.0	ND	97.5	ND	103.1	105.7	70.0	137.0	2.5	32.0					
iodomethane	1.00	ND	17.21	ND	102.95	114.87	20.0	ND	86.1	ND	514.8	574.4	10.0	247.0	10.9	164.0					
methylene chloride	1.00	ND	24.95	ND	122.73	124.37	100.0	ND	124.8	ND	122.7	124.4	70.0	131.0	1.3	36.0					
carbon disulfide	0.50	ND	16.05	ND	89.49	94.47	100.0	ND	80.3	ND	89.5	94.5	49.0	154.0	5.4	64.0					
methyl-tert-butyl ether	0.50	ND	14.00	ND	74.46	64.41	100.0	ND	70.0	ND	74.5	64.4	62.1	NA	14.5	52.0					
trans-1,2-dichloroethene	0.50	ND	20.97	ND	108.86	113.36	100.0	ND	104.9	ND	108.9	113.4	70.0	130.0	4.1	26.0					
n-hexane	0.50	ND	11.23	ND	48.93	44.12	100.0	ND	56.2	ND	48.9	44.1	51.0	151.0	10.3	61.0			L	L	
vinyl acetate	1.00	ND	3.59	ND	19.11	18.62	100.0	ND	18.0	ND	19.1	18.6	10.0	179.0	2.6	105					
1,1-dichloroethane	1.00	ND	19.95	ND	104.58	104.95	100.0	ND	99.8	ND	104.6	105.0	70.0	130.0	0.4	26.0					
2-butanone	2.50	ND	16.93	ND	122.54	126.51	100.0	ND	84.7	ND	122.5	126.5	29.0	159.0	3.2	79.0					
2,2-dichloropropane	0.50	ND	21.06	ND	110.14	108.95	100.0	ND	105.3	ND	110.1	109.0	70.0	136.0	1.1	35.0					
cis-1,2-dichloroethene	0.50	ND	19.70	ND	104.94	105.40	100.0	ND	98.5	ND	104.9	105.4	70.0	130.0	0.4	29.0					
chloroform	0.50	ND	21.29	ND	110.74	109.88	100.0	ND	106.5	ND	110.7	109.9	70.0	131.0	0.8	29.0					
bromochloromethane	0.50	ND	22.09	ND	113.42	111.94	100.0	ND	110.5	ND	113.4	111.9	65.0	140.0	1.3	56.0					
1,1,1-trichloroethane	0.50	ND	20.43	ND	107.31	107.30	100.0	ND	102.2	ND	107.3	107.3	70.0	138.0	0.0	36.0					
1,1-dichloropropene	0.50	ND	25.17	ND	134.36	134.67	100.0	ND	125.9	ND	134.4	134.7	70.0	159.0	0.2	43.0					
carbon tetrachloride	0.50	ND	21.03	ND	108.75	107.14	100.0	ND	105.2	ND	108.8	107.1	70.0	144.0	1.5	41.0					
1,2-dichloroethane	0.50	ND	21.69	ND	107.55	105.78	100.0	ND	108.5	ND	107.6	105.8	70.0	130.0	1.7	51.0					
benzene	0.50	ND	21.85	ND	113.02	115.01	100.0	ND	109.3	ND	113.0	115.0	70.0	130.0	1.7	20.0					
trichloroethene	0.50	ND	20.55	ND	111.72	114.96	100.0	ND	102.8	ND	111.7	115.0	70.0	130.0	2.9	22.0					
1,2-dichloropropane	0.50	ND	21.57	ND	110.78	112.14	100.0	ND	107.9	ND	110.8	112.1	70.0	130.0	1.2	25.0					
bromodichloromethane	0.50	ND	22.84	ND	116.36	114.27	100.0	ND	114.2	ND	116.4	114.3	70.0	136.0	1.8	31.0					
dibromomethane	0.50	ND	22.13	ND	110.35	109.32	100.0	ND	110.7	ND	110.4	109.3	70.0	130.0	0.9	28.0					
2-chloroethylvinyl ether	0.50	ND	17.17	ND	103.84	110.32	100.0	ND	85.9	ND	103.8	110.3	10.0	246.0	6.1	182.0					
4-methyl-2-pentanone	2.50	ND	17.94	ND	100.73	102.83	100.0	ND	89.7	ND	100.7	102.8	45.0	153.0	2.1	67.0					
cis-1,3-dichloropropene	0.50	ND	25.71	ND	131.00	130.98	100.0	ND	128.6	ND	131.0	131.0	70.0	141.0	0.0	39.0					
toluene	0.50	ND	21.34	5.90	122.10	128.30	100.0	ND	106.7	5.90	116.2	122.4	70.0	130.0	5.0	26.0					
trans-1,3-dichloropropene	0.50	ND	19.62	ND	99.60	104.01	100.0	ND	98.1	ND	99.6	104.0	70.0	130.0	4.3	27.0					
1,1,2-trichloroethane	0.50	ND	19.35	ND	97.22	103.50	100.0	ND	96.8	ND	97.2	103.5	70.0	130.0	6.3	22.0					
2-hexanone	2.50	ND	15.61	ND	88.44	95.20	100.0	ND	78.1	ND	88.4	95.2	42.0	138.0	7.4	59.0					
1,3-dichloropropane	0.50	ND	19.39	ND	95.91	102.18	100.0	ND	97.0	ND	95.9	102.2	70.0	130.0	6.3	24.0					
tetrachloroethene	0.50	ND	20.29	ND	108.18	112.45	100.0	ND	101.5	ND	108.2	112.5	70.0	130.0	3.9	24.0					
dibromochloromethane	0.50	ND	20.22	ND	100.75	104.96	100.0	ND	101.1	ND	100.8	105.0	70.0	130.0	4.1	29.0					
1,2-dibromoethane	0.50	ND	20.06	ND	101.05	106.59	100.0	ND	100.3	ND	101.1	106.6	70.0	130.0	5.3	22.0					
1-chlorohexane	0.50	ND	16.66	ND	88.17	76.72	100.0	ND	83.3	ND	88.2	76.7	70.0	139.0	13.9	40.0					
chlorobenzene	0.50	ND	21.27	ND	109.84	111.26	100.0	ND	106.4	ND	109.8	111.3	70.0	130.0	1.3	20.0					
1,1,1,2-tetrachloroethane	0.50	ND	20.90	ND	105.36	109.40	100.0	ND	104.5	ND	105.4	109.4	70.0	131.0	3.8	29.0					
ethylbenzene	0.50	ND	22.34	290.54	557.59	618.65	100.0	ND	111.7	290.5	267.1	328.1	70.0	130.0	10.4	20.0			H	H	
m+p-xylene	0.50	ND	44.78	224.21	583.13	613.40	200.0	ND	112.0	224.2	179.5	194.6	70.0	130.0	5.1	33.0			H	H	
o-xylene	0.50	ND	23.33	81.87	246.97	251.10	100.0	ND	116.7	81.9	165.1	169.2	70.0	130.0	1.7	21.0			H	H	
styrene	0.50	ND	23.90	ND	132.56	128.10	100.0	ND	119.5	ND	132.6	128.1	70.0	130.0	3.4	26.0			H		
bromoform	0.50	ND	21.87	ND	114.79	110.07	100.0	ND	109.4	ND	114.8	110.1	70.0	130.0	4.2	33.0					
isopropylbenzene	0.30	ND	23.48	4.06	132.27	128.81	100.0	ND	117.4	4.1	128.2	124.8	85.0	124.0	2.7	15.0			H	H	
1,1,2,2-tetrachloroethane	0.50	ND	21.34	ND	102.61	103.56	100.0	ND	106.7	ND	102.6	103.6	70.0	130.0	0.9	28.0					
1,2,3-trichloropropane	0.64	ND	22.48	ND	110.60	111.38	100.0	ND	112.4	ND	110.6	111.4	70.0	130.0	0.7	28.0					
propyl-benzene	0.50	ND	22.23	ND	111.75	113.74	100.0	ND	111.2	ND	111.8	113.7	70.0	130.0	1.8	26.0					
bromobenzene	0.50	ND	21.40	ND	107.43	109.19	100.0	ND	107.0	ND	107.4	109.2	70.0	130.0	1.6	22.0					
1,3,5-trimethylbenzene	0.50	ND	21.77	ND	111.76	113.26	100.0	ND	108.9	ND	111.8	113.3	70.0	130.0	1.3	22.0					
2-chlorotoluene	0.50	ND	21.45	ND	109.74	110.92	100.0	ND	107.3	ND	109.7	110.9	70.0	130.0	1.1	24.0					
4-chlorotoluene	0.50	ND	21.81	ND	104.94	108.01	100.0	ND	109.1	ND	104.9	108.0	70.0	130.0	2.9	23.0					
tert-butyl-benzene	0.50	ND	21.50	ND	109.60	111.79	100.0	ND	107.5	ND	109.6	111.8	70.0	130.0	2.0	30.0					
1,2,4-trimethylbenzene	0.50	ND	21.43	9.51	122.16	125.51	100.0	ND	107.2	9.5	112.7	116.0	70.0	130.0	2.7	22.0					
sec-butyl-benzene	0.50	ND	20.90	ND	104.15	106.67	100.0	ND	104.5	ND	104.2	106.7	70.0	130.0	2.4	26.0					
p-isopropyl-toluene	0.50	ND	21.09	ND	106.29	107.95	100.0	ND	105.5	ND	106.3	108.0	70.0	130.0	1.5	21.0					
1,3-dichlorobenzene	0.50	ND	21.18	ND	101.60	102.81	100.0	ND	105.9	ND	101.6	102.8	70.0	130.0	1.2	20.0					
1,4-dichlorobenzene	0.50	ND	20.51	ND	100.52	101.15	100.0	ND	102.6	ND	100.5	101.2	70.0	130.0	0.6	20.0					
n-butyl-benzene	0.50	ND	21.31	ND	104.21	104.87	100.0	ND	106.6	ND	104.2	104.9	70.0	130.0	0.6	29.0					
1,2-dichlorobenzene	0.50	ND	20.82	ND	102.02	104.71	100.0	ND	104.1	ND	102.0	104.7	70.0	130.0	2.6	20.0					
1,2-dibromo-3-chloropropane	0.50	ND	22.03	ND	109.24	108.62	100.0	ND	110.2	ND	109.2	108.6	63.0	131.0	0.6	20.0					
1,2,4-trichlorobenzene	0.50	ND	20.14	ND	95.75	93.28	100.0	ND	100.7	ND	95.8	93.3	70.0	130.0	2.6	25.0					
hexachlorobutadiene	0.50	ND	20.25	ND	95.30	92.43	100.0	ND	101.3	ND	95.3	92.4	70.0	130.0	3.1	29.0					
naphthalene	0.50	0.74	20.39	4.77	105.72	104.58	100.0	0.74	102.0	4.8	101.0	99.8	59.0	130.0	1.1	43.0					
1,2,3-trichlorobenzene	0.50	ND	20.28	ND	96.14	93.02	100.0	ND	101.4	ND	96.1	93.0	70.0	130.0	3.3	29.0					
Surrogates																					
dibromofluoromethane		48.99	45.82	47.47	46.26	44.38	50.0	98.0	91.6	94.9	92.5	88.8	80	120							
1,2-dichloroethane-d4		54.80	49.65	49.96	47.76	45.56	50.0	109.6	99.3	99.9	95.5	91.1	80	120							
toluene-d8		48.90	47.73	50.19	49.18	49.57	50.0	97.8	95.5	100.4	98.4	99.1	81	117							
p-bromofluorobenzene		52.10	52.40	50.32	52.08	52.48	50.0	104.2	104.8	100.6	104.2	105.0	74	121							

Notes and Definitions:

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MS/MSD= Matrix Spike / Matrix Spike Duplicate
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NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

DAIMLERCHRYSLER — Chain-of-Custody

0267 B

Offsite Drilling

~~Lancaster Laboratories~~ Kemron
~~2425 New Holland Pike~~ 109 Starlite Park
~~Lancaster, PA 17601~~ Marietta, OH 45750
Phone Number: ~~(717) 656-2300~~ 740 373 4071
~~Fax Number: (717) 656-2681~~

Project Name: Dayton Thermal Products
Site Location: Dayton OH
Site Code: SC001
RFA Number: YGQP2001207 (207 E)
DaimlerChrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears + Graham, Inc.
Address: 1210 W. Cnty Rd E Suite 700
St. Paul MN 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
(14 calendar days)

Data Package Deliverables: (circle)
(DaimlerChrysler Level 1)
DaimlerChrysler Level 2
CLP

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOC 5030B/5035/8260B								Remarks
PZ-28I 41 feet	3/28/01	1035	G	S	1	X								PID = 36 ppm
PZ-24I 38 feet	3/28/01	1430	G	S	1	X								PID = 41 ppm
														(*) SD rec'd 3/31/01
														Stored in locked
														cooler overweek

Sampler(s): Mike Plante

Cooler ID #: ——

Samples Relinquished under Airbill No. 824181891815

Temperature (corrected) 4 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
MPlante	3/30/01	18:30		(*)		C/C sealed SD intact
Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact? Yes No
			Blenda Oregon	4/2/01	0830	(Yes)

Is RFA sampling complete? Yes (No)

207 E

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

CRF #3

KEMRON Environmental Services | **SAMPLES RECEIPT FORM #1** | Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
Compuchem BRG ARS Other _____	4-2-01	(✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

COOLER ID: Lt. Blue Igloo	COOLER ID:	COOLER ID:
INDEX # : 8241818918 15	INDEX # :	INDEX # :
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP : (C) 4 (D) °C	TEMP : (C) (D) °C	TEMP : (C) (D) °C
TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL (✓) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) AS APPROPRIATE (✓) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

KEMRON Internal Laboratory Chain of Custody

Work Order: L0104002 **Client:** Compuchem **# of Samples:** 2 **Due Date:** 4-9-01 **Page:** _____

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
1,2	8260	AN	MCJ 4-4-01 1450	V1	VOA	[illegible]	CMS 4-16-01 @1425	archive	ars	archive
1,2	PCJ-5	test	Tmm 4/5/01 @1330	☆	—	MS	—	—	—	—

☆ 5x split in 4/5/01 @1330 Tmm