ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL 312-663 9415
International Specialists in the Environmental Sciences

69905
00006

Date Received for Review: 5/22/85 Date Review Completed: 5/23/85

To: Steve Nelson

From: Cynthia Bachunas / ARIENE PRATT

Subject: WOODSTOCK MUNICIPAL L.F. RDS-8410-01 (Illinois)

Sample Description: CASE # 4042 low soil organic

Project Data Status: Complete

FIT Data Review Findings:

See attached review by Tom Clyne

Additional QA/QC data is in the original data packet in file

Additional Comments:

DATE: MAY 3, 1985
TO: STAFF
FROM: JERRY OSKUAREK
SUBJECT: SI COMPLETION SCHEDULES

PLEASE REMEMBER THAT WITH THE RECEIPT OF THIS DATA THAT YOU MUST TURN IN A SI COMPLETION FORM WHICH INDICATES WHEN YOU WILL BE TURNING IN THE 2070-13 FORM. IF YOU DONT I WILL STOP BY TO OBTAIN IT FROM YOU. THANKS.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/17/85

SUBJECT: Review of Region V CLP Data
Received for Review on 5/15/85

FROM: Curtis Ross, Director
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME Woodstock Mun L.F. SMO Case No. 40H2

EPA Data Set No. SF 2215 No. of Samples 3 D.U./Activity Numbers 1905 / CH8500

CRL No. CRL 1FN03511 — 85FN03513

SMO Traffic No. EA307, EA308, EB830

Contract Laboratory: GCA Hours Required for Review: 3

Following are our findings. 1.) Surrogates acceptable 2.) MS/MSD acceptable. 3.) SV Blanks had TIC hits VOA Blanks acceptable. 4.) running and analytical time acceptable. 5.) SPCC & CCC failed, the VOA chloromethane, bromoform ~~[illegible]~~ low RF continuous & the above two plus tetrachloroethane have low RF (See narrative.) The BN & acid were run on different days, (See narrative)

User There are pesticide and VOA hits.

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Received 16 May 85

(3 set of OA+S & VOA + SV TIC forms)

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

CRL Data Set No. 5F 2215 ERRIS No. _____

SMO Case No. 4042 Site Name: Woodstock Mun. Landfill

Name of Laboratory: GCA Data User: Eit

No. of Samples: 3 Date Samples Received: 5/15/85

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ✓ NO ___
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 3 Number of samples received: 3
7. Checked by: [illegible] Date: 5/15/85
8. Received by Contract Project Management Section: [illegible] Thomas Date: 5/15/85
Review Started: 16 May 85 Reviewer Signature: [illegible]
10. Total time spent on review: 3 Date review completed: 16 May 85
11. Copied (xeroxed) by: Willie E. Green Date: 5-20-85

12. Mailed to Data User by: _____ Date: _____

TO DATA USERS:

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Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, SSCRL

13. Data received by: [illegible] Date: 5/22/85
14. Q.A. review received by: [illegible] Date: 5/22/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

5F2215

GCA CORPORATION
Technology Division
213 Burlington Road
Bedford, Massachusetts 01730
Telephone 617-275-5444
Telex 92-3339

May 8, 1985

Mr. Tony Nesky
RAS Sampling Coordinator
SMO - Viar and Company
300 N. Lee St., #200
Alexandria, VA 22314

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MAY 15 1985
U.S. EPA REGIONAL ... LAB.
CHICAGO, ILLINOIS 60605

Subject: Analytical Results-Water Samples-Case 4042
(GCA 3-718-005)

Dear Tony:

Enclosed please find the data package for Case 4042. Case 4042 consisted of three (3) soil samples which were received at GCA/Technology Division on March 21, 1985. These samples and each of two matrix spikes underwent the following analyses.

Volatile Organic Analysis
Base/Neutral and Acid Extractable Analysis
Pesticides and PCBs Analysis

Additional comments pertinent to the analyses of these samples are provided on the pages immediately following.

Please do not hesitate to contact the undersigned with any questions or concerns.

Sincerely,

Joanna Hall (JMM)

Joanna M. Hall
Head, Organic Section
Laboratory Analysis Department

Approved by:

Deborah F. McGrath

Deborah F. McGrath
Operations Manager
Laboratory Analysis Department

JH/mdp

cc: EMSL/LV
EPA, Region V
M.L. Atkinson
P. Merrill

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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703-557-2490

Sample Number
EA308

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-29-85

Conc/Dil Factor: 20

Best acceptable

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	8.0U
319-85-7	Beta-BHC	8.0U
319-86-8	Delta-BHC	8.0U
58-89-9	Gamma-BHC (Lindane)	8.0U
76-44-8	Heptachlor	8.0U
309-00-2	Aldrin	8.0U
1024-57-3	Heptachlor Epoxide	~~8.0U~~
959-98-8	Endosulfan I	8.0U
60-57-1	Dieldrin	16.0U
72-55-9	4,4'-DDE 140	140 *
72-20-8	Endrin	16.0U
33213-65-9	Endosulfan II	16.0U
72-54-8	4,4'-DDD 128	128 *
7421-93-4	Endrin Aldehyde	16.0U
1031-07-8	Endosulfan Sulfate	16.0U
50-29-3	4,4'-DDT 69	69.0 **
72-43-5	Methoxychlor	80.0U
53494-70-5	Endrin Ketone	16.0U
57-74-9	Chlordane	80.0U
8001-35-2	Toxaphene	160U
12674-11-2	Aroclor-1016	80.0U
11104-28-2	Aroclor-1221	80.0U
11141-16-5	Aroclor-1232	80.0U
53469-21-9	Aroclor-1242	80.0U
12672-29-6	Aroclor-1248	80.0U
11097-69-1	Aroclor-1254	160U
11096-82-5	Aroclor-1260	160U

confirmed 3 hits

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

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V_s _____ or W_s 7.719 V_t 1000ul V_i 5.0ul

* confirmed on confirmatory column and sent to GC/MS for Confirmation

** confirmed on confirmatory column but too low for GC/MS confirmation

5/3/85

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703 557-2490

Sample Number
EA 3084

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN *	VOA	1085	53
2.				
3.				
4.				
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* believed to be from column or septa.

EA 30 8

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Acetaldehyde	VOA	107	910
2.	Unknown	↓	41.3	820
3.				
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MAY 22 1995

Sample Number
EA 308

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BN/A	13.2	1300 J
2.			14.3	1000 J
3.			15.0	1900 J
4.				
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...x 810, Alexandria, Virginia 22313 (703) 557-2490

EA 307

85FN03511

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Case No: 4042
Lab Sample ID No: 43458
QC Report No 4042
Sample Matrix: Low Med Soil
Contract No: 68-01-7050
Data Release Authorized By: F. Murphy
Date Sample Received: 3/21/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 3/29/85
Date Analyzed: 3/29/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: Na
Percent Moisture (Decanted): Na

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	6.4
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride 55	55
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	10u
75-35-4	1, 1-Dichloroethene	20u
75-34-3	1, 1-Dichloroethane	20u
156-60-5	Trans-1, 2-Dichloroethene	20u
67-66-3	Chloroform 8 J	8.4 J
107-06-2	1, 2-Dichloroethane	20u
78-93-3	2-Butanone	40u
71-55-6	1, 1, 1-Trichloroethane 15 J	15 J
56-23-5	Carbon Tetrachloride	20u
108-05-4	Vinyl Acetate	40u
75-27-4	Bromodichloromethane	20u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	20u
78-87-5	1, 2-Dichloropropane	20u
10061-02-6	Trans-1, 3 Dichloropropene	20u
79-01-6	Trichloroethene	20u
124-48-1	Dibromochloromethane	20u
79-00-5	1, 1, 2-Trichloroethane	20u
71-43-2	Benzene	20u
10061-01-5	cis-1, 3 Dichloropropene	20u
110-75-8	2-Chloroethylvinylether	40u
75-25-2	Bromoform	20u
591-78-6	2-Hexanone	40u
108-10-1	4-Methyl-2-Pentanone	20u
127-18-4	Tetrachloroethene	20u
108-88-3	Toluene	20u
108-90-7	Chlorobenzene	20u
100-41-4	Ethylbenzene	20u
100-42-5	Styrene	20u
	Total Xylenes	20u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

RECEIVED MAY 22 1985

P O Box 818, Alexandria, Virginia 22313

EA 307

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Case No: 4042
Lab Sample ID No: 43458
QC Report No. 4042
Sample Matrix: Water Soil
Contract No: 68-01-7080
Data Release Authorized By: F. Pierguin
Date Sample Received: 3/21/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 4/22/85
Date Analyzed: 4/22/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One) CA
74-87-3	Chloromethane	AN Soil
74-83-9	Bromomethane	AN Soil
75-01-4	Vinyl Chloride	AN Soil
75-00-3	Chloroethane	AN Soil
75-09-2	Methylene Chloride HH	44
67-64-1	Acetone	AN Soil
75-15-0	Carbon Disulfide	AN Soil
75-35-4	1, 1-Dichloroethene	Soil
75-34-3	1, 1-Dichloroethane	Soil
156-60-5	Trans-1, 2-Dichloroethene	Soil
67-66-3	Chloroform HHB	440
107-06-2	1, 2-Dichloroethane	Soil
78-93-3	2-Butanone	40J
71-55-6	1, 1, 1-Trichloroethane 32	32
23-5	Carbon Tetrachloride	Soil
108-05-4	Vinyl Acetate	40J
75-27-4	Bromodichloromethane	Soil

CAS Number		ug/l or ug/Kg (Circle One) CA
79-34-5	1, 1, 2, 2-Tetrachloroethane	Soil
78-87-5	1, 2-Dichloropropane	Soil
10061-02-6	Trans-1, 3 Dichloropropene	Soil
79-01-6	Trichloroethene	Soil
124-48-1	Dibromochloromethane	Soil
79-00-5	1, 1, 2-Trichloroethane	Soil
71-43-2	Benzene AN	28 Soil
10061-01-5	cis-1, 3 Dichloropropene	Soil
110-75-8	2-Chloroethylvinylether	Soil
75-25-2	Bromoform	Soil
591-78-6	2-Hexanone	AN Soil
108-10-1	4-Metnyl-2-Pentanone	AN Soil
127-18-4	Tetrachloroethene	AN Soil
108-88-3	Toluene	AN Soil
108-90-7	Chlorobenzene	AN Soil
100-41-4	Ethylbenzene	AN Soil
100-42-5	Styrene	AN Soil
	Total Xylenes	AN Soil

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

RECEIVED MAY 22 1985

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III-3

Environmental Protection Agency, Office of Pesticides and Toxic Substances
P.O. Box 818, Alexandria, Virginia 22313 557-2490

Sample Number
EA 307

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 3/26/85

Date Analyzed 4/24/85

Conc/Dil Factor: .016 kg → 1.0 ml-CH_2Cl_2

CAS Number		ug/L or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	NA
108-95-2	Phenol	660
62-53-3	Aniline	660
111-44-4	bis-2-Chloroethyl Ether	660
95-57-8	2-Chlorophenol	660
541-73-1	1,3-Dichlorobenzene	660
106-46-7	1,4-Dichlorobenzene	660
100-51-6	Benzyl Alcohol	660
95-50-1	1,2-Dichlorobenzene	660
95-48-7	2-Methylphenol	660
39638-32-9	bis-2-chloroisopropyl Ether	660
106-44-5	4-Methylphenol	660
621-64-7	N-Nitroso-Di-n-Propylamine	660
67-72-1	Hexachloroethane	660
98-95-3	Nitrobenzene	660
78-59-1	Isophorone	660
88-75-5	2-Nitrophenol	660
105-67-9	2,4-Dimethylphenol	660
65-85-0	Benzoic Acid	3300
111-91-1	bis-2-Chloroethoxy Methane	660
120-83-2	2,4-Dichlorophenol	660
120-82-1	1,2,4-Trichlorobenzene	660
91-20-3	Naphthalene	660
106-47-8	4-Chloroaniline	660
87-68-3	Hexachlorobutadiene	660
59-50-7	4-Chloro-3-Methylphenol	660
91-57-6	2-Methylnaphthalene	660
77-47-4	Hexachlorocyclopentadiene	660
88-06-2	2,4,6-Trichlorophenol	660
95-95-4	2,4,5-Trichlorophenol	3300
91-58-7	2-Chloronaphthalene	660
88-74-4	2-Nitroaniline	3300
131-11-3	Dimethyl Phthalate	660
208-96-8	Acenaphthylene	660
99-09-2	3-Nitroaniline	3300

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	660
51-28-5	2,4-Dinitrophenol	3300
100-02-7	4-Nitrophenol	3300
132-64-9	Dibenzofuran	660
121-14-2	2,4-Dinitrotoluene	660
606-20-2	2,6-Dinitrotoluene	660
84-66-2	Diethylphthalate	660
7005-72-3	4-Chlorophenyl phenylether	660
86-73-7	Fluorene	660
100-01-6	4-Nitroaniline	3300
534-52-1	4,6-Dinitro-2-Methylphenol	3300
86-30-6	N-Nitrosodiphenylamine (1)	660
101-55-3	4-Bromophenyl-phenylether	660
118-74-1	Hexachlorobenzene	660
87-86-5	Pentachlorophenol	3300
85-01-8	Phenanthrene	660
120-12-7	Anthracene	660
84-74-2	Di-n-Butylphthalate	660
206-44-0	Fluoranthene	660
92-87-5	Benzidine	3300
129-00-0	Pyrene	660
85-68-7	Butylbenzylphthalate	660
91-94-1	3,3'-Dichlorobenzidine	1300
56-55-3	Benzo(a)Anthracene	660
117-81-7	bis(2-Ethylhexyl)Phthalate	660
218-01-9	Chrysene	660
117-84-0	Di-n-Octyl Phthalate	660
205-99-2	Benzo(b)fluoranthene	660
207-08-9	Benzo(k)fluoranthene	660
50-32-8	Benzo(a)Pyrene	660
193-39-5	Indeno(1,2,3-cd)Pyrene	660
53-70-3	Dibenz(a,h)Anthracene	660
191-24-2	Benzo(g,h,i)Perylene	660

(1) Cannot be separated from diphenylamine

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Form I

III 4

Environmental Projection Agency. CLP Sample Management Office
P. O. Box 818, Alexandria, Virginia 22313 703 557 2490

Sample Number
EA307

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-29-85

Conc/Dil Factor: 20

CAS Number		ug/l or ug/Kg (Circle One)
319 84 6	Alpha BHC	7.0U
319-85-7	Beta-BHC	7.0U
319-86-8	Delta BHC	7.0U
58-89-9	Gamma-BHC (Lindane)	7.0U
76-44-8	Heptachlor	31.0U
309-00-2	Aldrin	7.0U
1024-57-3	Heptachlor Epoxide	7.0U
959-98-8	Endosulfan I	7.0U
60-57-1	Dieldrin	9.4E
72-55-9	4, 4'-DDE	7.0U
72-20-8	Endrin	7.0U
33213 65-9	Endosulfan II	7.0U
72-54-8	4, 4'-DDD	7.0U
7421-93-4	Endrin Aldehyde	7.0U
1031-07-8	Endosulfan Sulfate	7.0U
50-29-3	4, 4'-DDT	7.0U
72-43-5	Methoxychlor	70.0U
53494-70-5	Endrin Ketone	7.0U
57-74-9	Chlordane	70.0U
8001-35-2	Toxaphene	140.0U
12674-11-2	Aroclor-1016	70.0U
11104-28-2	Aroclor-1221	70.0U
11141-16-5	Aroclor-1232	70.0U
53469-21-9	Aroclor-1242	70.0U
12672-29-6	Aroclor-1248	70.0U
11097 69-1	Aroclor-1254	70.0U
11096-82-5	Aroclor-1260	70.0U

below not confirmed TC

M Stall 5/21/85

RECEIVED JUN 2 2 1985

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 16.0g V_t 1000ul V_i 5.0ul

E-approximate value - lower than CDL - not confirmed

III 5

EA 307

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Hydr	VSA	154	19 100
2.	Unknown		268	920
3.	Unknown		402	350
4.	Unknown		413	60
5.	Unknown		554	57
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RECEIVED MAY 2 1985

II 4

4/84

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	unknown *	Vol	1278	150
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RECEIVED MAY 2 2

* believed to be from column or septa.

#7

4/84

Sample Number
EA307

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BN/A	5.6	90,000 J
2.			13.2	1100 J
3.			14.3	290 J
4.			20.7	540 J
5.			21.8	300 J
6.			23.1	760 J
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III 8

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
EA 830

85FN03513

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Case No: 4042
Lab Sample ID No: 43460
QC Report No. 4042
Sample Matrix: Soil
Contract No: 68-01-7080
Data Release Authorized By: F. Marquez
Date Sample Received: 3/21/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 3/29/85
Date Analyzed: 3/29/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	60u
74-83-9	Bromomethane	60u
75-01-4	Vinyl Chloride	60u
75-00-3	Chloroethane	60u
75-09-2	Methylene Chloride	20u
67-64-1	Acetone	60u 3/29/85
75-15-0	Carbon Disulfide	30u
75-35-4	1, 1-Dichloroethene	20u
75-34-3	1, 1-Dichloroethane	20u
156-60-5	Trans-1, 2-Dichloroethene	20u
67-66-3	Chloroform 8J	8.4J
107-06-2	1, 2-Dichloroethane	20u
78-93-3	2-Butanone	40u
71-55-6	1, 1, 1-Trichloroethane 19J	19J
56-23-5	Carbon Tetrachloride	20u
108-05-4	Vinyl Acetate	40u
75-27-4	Bromodichloromethane	20u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	20u
78-87-5	1, 2-Dichloropropane	20u
10061-02-6	Trans-1, 3-Dichloropropene	20u
79-01-6	Trichloroethene	20u
124-48-1	Dibromochloromethane	20u
79-00-5	1, 1, 2-Trichloroethane	20u
71-43-2	Benzene	20u
10061-01-5	cis-1, 3-Dichloropropene	20u
110-75-8	2-Chloroethylvinylether	40u
75-25-2	Bromoform	20u
591-78-6	2-Hexanone	40u
108-10-1	4-Methyl-2-Pentanone	40u
127-18-4	Tetrachloroethene	20u
108-88-3	Toluene	20u
108-90-7	Chlorobenzene	20u
100-41-4	Ethylbenzene	20u
100-42-5	Styrene	20u
	Total Xylenes	20u

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Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. *Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.*

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557 2490

Sample Number
EB 830

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Case No: 4042
Lab Sample ID No: 43460
QC Report No: 4042
Sample Matrix: ~~Water~~ CM Soil
Contract No: 68-01-7080
Data Release Authorized By: F. Caruso
Date Sample Received: ~~4/23~~ CM 3/21/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 4/23/85
Date Analyzed: 4/23/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		~~ug/l~~ or ug/Kg (Circle One)
74-87-3	Chloromethane	60U AM
74-83-9	Bromomethane	60U AM
75-01-4	Vinyl Chloride	60U AM
75-00-3	Chloroethane	60U AM
75-09-2	Methylene Chloride	120
67-64-1	Acetone	~~AM 54~~ ~~5~~ ~~4~~ CM 80u
75-15-0	Carbon Disulfide	20U
75-35-4	1, 1-Dichloroethene	20U
75-34-3	1, 1-Dichloroethane	20U
156-60-5	Trans-1, 2-Dichloroethene	20U
67-66-3	Chloroform 400	400
107-06-2	1, 2-Dichloroethane	20U
78-93-3	2-Butanone	40U
71-55-6	1, 1, 1-Trichloroethane AM	44
56-23-5	Carbon Tetrachloride	20U
108-05-4	Vinyl Acetate	40U
75-27-4	Bromodichloromethane	20U

CAS Number		~~ug/l~~ or ug/Kg (Circle One) CM
79-34-5	1, 1, 2, 2-Tetrachloroethane	20U
78-87-5	1, 2-Dichloropropane	20U
10061-02-6	Trans-1, 3-Dichloropropene	20U
79-01-6	Trichloroethene	20U
124-48-1	Dibromochloromethane	20U
79-00-5	1, 1, 2-Trichloroethane	20U
71-43-2	Benzene	20U
10061-01-5	cis-1, 3-Dichloropropene	20U
110-75-8	2-Chloroethylvinylether	40U
75-25-2	Bromoform	20U
591-78-6	2-Hexanone	40U
108-10-1	4-Methyl-2-Pentanone	40U
127-18-4	Tetrachloroethene	20U
108-88-3	Toluene	20U
108-90-7	Chlorobenzene	20U
100-41-4	Ethylbenzene	20U
100-42-5	Styrene	20U
	Total Xylenes	~~52~~ ~~20U~~

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. *Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.)* The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

MAY 22 1985

Environmental Protection Agency, Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 557-2490

Sample Number
EB830

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 3/21/85

Date Analyzed: 4/24/85

Conc/Dil Factor: .022kg-7 10mL CH_2Cl_2

CAS Number		ug/L or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	NA
108-95-2	Phenol	400
62-53-3	Aniline	400
111-44-4	bis-2-Chloroethyl Ether	400
95-57-8	2-Chlorophenol	400
541-73-1	1,3-Dichlorobenzene	400
106-46-7	1,4-Dichlorobenzene	400
100-51-6	Benzyl Alcohol	400
95-50-1	1,2-Dichlorobenzene	400
95-48-7	2-Methylphenol	400
39638-32-9	bis-2-chloroisopropyl Ether	400
106-44-5	4-Methylphenol	400
621-64-7	N-Nitroso-Di-n-Propylamine	400
67-72-1	Hexachloroethane	400
98-95-3	Nitrobenzene	400
78-59-1	Isophorone	400
88-75-5	2-Nitrophenol	400
105-67-9	2,4-Dimethylphenol	400
65-85-0	Benzoic Acid	2400
111-91-1	bis-2-Chloroethoxy Methane	400
120-83-2	2,4-Dichlorophenol	400
120-82-1	1,2,4-Trichlorobenzene	400
91-20-3	Naphthalene	400
106-47-8	4-Chloroaniline	400
87-68-3	Hexachlorobutadiene	400
59-50-7	4-Chloro-3-Methylphenol	400
91-57-6	2-Methylnaphthalene	400
77-47-4	Hexachlorocyclopentadiene	400
88-06-2	2,4,6-Trichlorophenol	400
95-95-4	2,4,5-Trichlorophenol	2400
91-58-7	2-Chloronaphthalene	400
88-74-4	2-Nitroaniline	2400
131-11-3	Dimethyl Phthalate	400
208-96-8	Acenaphthylene	400
99-09-2	3-Nitroaniline	2400

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	400
51-28-5	2,4-Dinitrophenol	2400
100-02-7	4-Nitrophenol	2400
132-64-9	Dibenzofuran	400
121-14-2	2,4-Dinitrotoluene	400
606-20-2	2,6-Dinitrotoluene	400
84-66-2	Diethylphthalate	400
7005-72-3	4-Chlorophenyl phenylether	400
86-73-7	Fluorene	400
100-01-6	4-Nitroaniline	2400
534-52-1	4,6-Dinitro-2-Methylphenol	2400
86-30-6	N-Nitrosodiphenylamine (1)	400
101-55-3	4-Bromophenyl-phenylether	400
118-74-1	Hexachlorobenzene	400
87-86-5	Pentachlorophenol	400
85-01-8	Phenanthrene	400
120-12-7	Anthracene	400
84-74-2	Di-n-Butylphthalate	400
206-44-0	Fluoranthene	400
92-87-5	Benzidine	2400
129-00-0	Pyrene	400
85-68-7	Butylbenzylphthalate	400
91-94-1	3,3-Dichlorobenzidine	400
56-55-3	Benzo(a)Anthracene	400
117-81-7	bis(2-Ethylhexyl)Phthalate	400
218-01-9	Chrysene	400
117-84-0	Di-n-Octyl Phthalate	400
205-99-2	Benzo(b)Fluoranthene	400
207-08-9	Benzo(k)Fluoranthene	400
50-32-8	Benzo(a)Pyrene	400
193-39-5	Indeno(1,2,3-cd)Pyrene	400
53-70-3	Dibenzo(a,h)Anthracene	400
191-24-2	Benzo(g,h,i)Perylene	400

(1) Cannot be separated from diphenylamine

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Environmental Protection Agency, Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 (557-2490)

Sample Number
ER820

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 3/21/85

Date Analyzed: 4/24/85

Conc/Dil Factor: .022kg → 10ml CH_2Cl_2

CAS Number		ug/L or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	NA
108-95-2	Phenol	480u
62-53-3	Aniline	480u
111-44-4	bis(2-Chloroethyl)Ether	480u
95-57-8	2-Chlorophenol	480u
541-73-1	1,3-Dichlorobenzene	480u
106-46-7	1,4-Dichlorobenzene	480u
100-51-6	Benzyl Alcohol	480u
95-50-1	1,2-Dichlorobenzene	480u
95-48-7	2-Methylphenol	480u
39638-32-9	bis(2-chloroisopropyl)Ether	480u
106-44-5	4-Methylphenol	480u
621-64-7	N-Nitroso-Di-n-Propylamine	480u
67-72-1	Hexachloroethane	480u
98-95-3	Nitrobenzene	480u
78-59-1	Isophorone	480u
88-75-5	2-Nitrophenol	480u
105-67-9	2,4-Dimethylphenol	480u
65-85-0	Benzoic Acid	2400u
111-91-1	bis(2-Chloroethoxy)Methane	480u
120-83-2	2,4-Dichlorophenol	480u
120-82-1	1,2,4-Trichlorobenzene	480u
91-20-3	Naphthalene	480u
106-47-8	4-Chloroaniline	480u
87-68-3	Hexachlorobutadiene	480u
59-50-7	4-Chloro-3-Methylphenol	480u
91-57-6	2-Methylnaphthalene	480u
77-47-4	Hexachlorocyclopentadiene	480u
88-06-2	2,4,6-Trichlorophenol	480u
95-95-4	2,4,5-Trichlorophenol	2400u
91-58-7	2-Chloronaphthalene	480u
88-74-4	2-Nitroaniline	2400u
131-11-3	Dimethyl Phthalate	480u
208-96-8	Acenaphthylene	480u
99-09-2	3-Nitroaniline	2400u

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	480u
51-28-5	2,4-Dinitrophenol	2400u
100-02-7	4-Nitrophenol	2400u
132-64-9	Dibenzofuran	480u
121-14-2	2,4-Dinitrotoluene	480u
606-20-2	2,6-Dinitrotoluene	480u
84-66-2	Diethylphthalate	480u
7005-72-3	4-Chlorophenyl phenylether	480u
86-73-7	Fluorene	480u
100-01-6	4-Nitroaniline	2400u
534-52-1	4,6-Dinitro-2-Methylphenol	2400u
86-30-6	N-Nitrosodiphenylamine (1)	480u
101-55-3	4-Bromophenyl-phenylether	480u
118-74-1	Hexachlorobenzene	480u
87-86-5	Pentachlorophenol	480u
85-01-8	Phenanthrene	480u
120-12-7	Anthracene	480u
84-74-2	Di-n-Butylphthalate	480u
206-44-0	Fluoranthene	480u
92-87-5	Benzidine	2400u
129-00-0	Pyrene	480u
85-68-7	Butylbenzylphthalate	480u
91-94-1	3,3'-Dichlorobenzidine	960u
56-55-3	Benzo(a)Anthracene	480u
117-81-7	bis(2-Ethylhexyl)Phthalate	480u
218-01-9	Chrysene	480u
117-84-0	Di-n-Octyl Phthalate	480u
205-99-2	Benzo(b)Fluoranthene	480u
207-08-9	Benzo(k)Fluoranthene	480u
50-32-8	Benzo(a)Pyrene	480u
193-39-5	Indeno(1,2,3-cd)Pyrene	480u
53-70-3	Dibenzo(a,h)Anthracene	480u
191-24-2	Benzo(g,h,i)Perylene	480u

(1) Cannot be separated from diphenylamine

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III 120 4/84

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
EB830

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-29-85

Conc/Dil Factor: 20

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	8.0U
319-85-7	Beta-BHC	8.0U
319-86-8	Delta-BHC	8.0U
58-89-9	Gamma-BHC (Lindane)	8.0U
76-44-8	Heptachlor	~~8.0U~~ 31.0U
309-00-2	Aldrin	8.0U
1024-57-3	Heptachlor Epoxide	8.0U
959-98-8	Endosulfan I	8.0U
60-57-1	Dieldrin	16.0U
72-55-9	4,4'-DDE	16.0U
72-20-8	Endrin	16.0U
33213-65-9	Endosulfan II	16.0U
72-54-8	4,4'-DDD	16.0U
7421-93-4	Endrin Aldehyde	16.0U
1031-07-8	Endosulfan Sulfate	16.0U
50-29-3	4,4'-DDT	16.0U
72-43-5	Methoxychlor	80.0U
53494-70-5	Endrin Ketone	16.0U
57-74-9	Chlordane	80.0U
8001-35-2	Toxaphene	160U
12674-11-2	Aroclor-1016	80.0U
11104-28-2	Aroclor-1221	80.0U
11141-16-5	Aroclor-1232	80.0U
53469-21-9	Aroclor-1242	80.0U
12672-29-6	Aroclor-1248	80.0U
11097-69-1	Aroclor-1254	160U
11096-82-5	Aroclor-1260	160U

JH Hall 5/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

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V_s _____ or W_s 21.85g V_t 1000ul V_i 5.0ul

Environmental Protection Agency. CLP Sample Management Office
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
EB830

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-29-85

Conc/Dil Factor: 20

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	8.0U
319-85-7	Beta-BHC	8.0U
319-86-8	Delta-BHC	8.0U
58-89-9	Gamma-BHC (Lindane)	8.0U
76-44-8	Heptachlor	~~8.0U~~ 31.0U
309-00-2	Aldrin	8.0U
1024-57-3	Heptachlor Epoxide	8.0U
959-98-8	Endosulfan I	8.0U
60-57-1	Dieldrin	16.0U
72-55-9	4,4'-DDE	16.0U
72-20-8	Endrin	16.0U
33213-65-9	Endosulfan II	16.0U
72-54-8	4,4'-DDD	16.0U
7421-93-4	Endrin Aldehyde	16.0U
1031-07-8	Endosulfan Sulfate	16.0U
50-29-3	4,4'-DDT	16.0U
72-43-5	Methoxychlor	80.0U
53494-70-5	Endrin Ketone	16.0U
57-74-9	Chlordane	80.0U
8001-35-2	Toxaphene	160U
12674-11-2	Aroclor-1016	80.0U
11104-28-2	Aroclor-1221	80.0U
11141-16-5	Aroclor-1232	80.0U
53469-21-9	Aroclor-1242	80.0U
12672-29-6	Aroclor-1248	80.0U
11097-69-1	Aroclor-1254	160U
11096-82-5	Aroclor-1260	160U

JH Hall 5/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

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V_s _____ or W_s 21.85g V_t 1000ul V_i 5.0ul

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703-557-2490

Sample Number
EB830

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-29-85

Conc/Dil Factor: 20

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	8.0U
319-85-7	Beta-BHC	8.0U
319-86-8	Delta-BHC	8.0U
58-89-9	Gamma-BHC (Lindane)	8.0U
76-44-8	Heptachlor	~~5.0U~~ 31.0U
309-00-2	Aldrin	8.0U
1024-57-3	Heptachlor Epoxide	8.0U
959-98-8	Endosulfan I	8.0U
60-57-1	Dieldrin	16.0U
72-55-9	4, 4'-DDE	16.0U
72-20-8	Endrin	16.0U
33213-65-9	Endosulfan II	16.0U
72-54-8	4, 4'-DDD	16.0U
7421-93-4	Endrin Aldehyde	16.0U
1031-07-8	Endosulfan Sulfate	16.0U
50-29-3	4, 4'-DDT	16.0U
72-43-5	Methoxychlor	80.0U
53494-70-5	Endrin Ketone	16.0U
57-74-9	Chlordane	80.0U
8001-35-2	Toxaphene	160U
12674-11-2	Aroclor-1016	80.0U
11104-28-2	Aroclor-1221	80.0U
11141-16-5	Aroclor-1232	80.0U
53469-21-9	Aroclor-1242	80.0U
12672-29-6	Aroclor-1248	80.0U
11097-69-1	Aroclor-1254	160U
11096-82-5	Aroclor-1260	160U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

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V_s _____ or W_s 21.85g V_t 1000ul V_i 5.0ul

JH Hall 5/3/85

EA 830A

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN *	1129	1076	78
2.				
3.				
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* believed to come from column or septa

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EB 83d

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Acetaldehyde	VOA	110	1900
2.	Unknown		410	240
3.	fluorobenzene		554	68
4.	Unknown		958	40
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III 113

P.O. Box 818, Alexandria, Virginia 22313 703 [illegible]

Sample Number
EB830

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BN/A	5.5	190000 J
2.			13.2	2500 J
3.			14.3	580 J
4.			20.6	1100 J
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