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10/27/00

EPA Region 5 Records Ctr.
356566

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

**MEMORANDUM**

**DATE:** October 27, 2000

**SUBJECT:** **Dibenzofuran results from Celotex**

**FROM:** Jon Peterson, RPM
RRB#2, Section #6 Jon Peterson

**TO:** Milt Clark

I pulled out the analytical data sheets for the one sample (X101) from the Celotex Site in Wilmington, Illinois, which showed dibenzofuran. The results indicated that 50 ppb dibenzofuran were recorded, however, the Data Qualifiers included a "J" code, which I believe means that the compound was detected, but below the detection limit.

Can you tell from the analytical data sheets how this result would compare in TCDF equivalents?

Celotex Corporation
ID 981961634

TABLE 4-1
SUMMARY

| SAMPLING POINT | G101 | G102 | G103 | S101 | S102 | X101 | X102D | X103 | X104D | X105D | X106 | X107 | X108 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 | 11-20-89 |
| PARAMETER | | | | | | | | | | | | | |
| VOLATILES (measured in ppb) | | | | | | | | | | | | | |
| Methylene Chloride | -- | -- | -- | -- | -- | -- | -- | 2.00J | 2.00J | 4.00J | 1.00J | -- | -- |
| Acetone | 15.00B | 68.00B | 25.00B | -- | 60.00B | -- | -- | 5.00J | -- | 44.00J | 230.00D | 15.00J | -- |
| 2-Butanone (MEK) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14.00 | 56.00 | -- | -- |
| Toluene | -- | -- | -- | -- | -- | 31.00 | 400.00J | -- | -- | -- | 57.00 | -- | -- |
| SEMIVOLATILES (ppb) | | | | | | | | | | | | | |
| Phenol | -- | -- | -- | -- | -- | 430.00J | -- | -- | -- | -- | -- | -- | -- |
| 4-Methylphenol | -- | -- | -- | -- | -- | 1100.00J | 840.00J | -- | -- | -- | -- | -- | -- |
| Benzoic acid | -- | -- | -- | -- | -- | 840.00J | -- | -- | -- | -- | -- | 290.00J | -- |
| Naphthalene | -- | -- | -- | -- | -- | 56.00 | 340.00BJ | -- | -- | -- | -- | -- | -- |
| 2-Methylnaphthalene | -- | -- | -- | -- | -- | -- | 1400B | -- | -- | -- | -- | -- | -- |
| Acenaphthene | -- | -- | -- | -- | -- | 140.00J | -- | -- | -- | -- | -- | -- | -- |
| Dibenzofuran | -- | -- | -- | -- | -- | 50.00J | -- | -- | -- | -- | -- | -- | -- |
| Diethylphthalate | -- | -- | 0.40J | 0.10J | -- | -- | -- | 28.00J | -- | -- | -- | -- | -- |
| Fluorene | -- | -- | -- | -- | -- | 78.00J | -- | -- | -- | -- | -- | -- | -- |
| Pentachlorophenol | -- | -- | -- | -- | -- | 140.00J | -- | -- | -- | -- | -- | -- | -- |
| Phenanthrene | -- | -- | -- | -- | -- | 790.00BJ | 110.00BJ | 75.00BJ | 8.00BJ | -- | -- | 99.00BJ | 93.00BJ |
| Anthracene | -- | -- | -- | -- | -- | 2000.00BJ | -- | 12.00BJ | -- | -- | -- | -- | -- |
| Di-n-Butylphthalate | -- | -- | -- | -- | -- | -- | 480.00BJ | 87.00BJ | 7.00BJ | -- | -- | 17.00BJ | 13.00BJ |
| Fluoranthene | -- | -- | -- | -- | -- | 9400.00B | -- | 100.00BJ | 16.00BJ | -- | -- | 150.00BJ | 150.00BJ |
| Pyrene | -- | -- | -- | -- | -- | 7400.00B | -- | 86.00BJ | 24.00BJ | -- | 12000.00J | 210.00BJ | 170.00BJ |
| Butylbenzylphthalate | -- | -- | -- | -- | -- | -- | 830J | -- | -- | -- | -- | -- | -- |
| Benzo(a)anthracene | -- | -- | -- | -- | -- | 2600.00BJ | -- | -- | -- | -- | -- | 390.00BJ | 140.00BJ |
| Chrysene | -- | -- | -- | -- | -- | 2900.00B | -- | -- | -- | -- | -- | -- | 110.00BJ |
| bis(2-Ethylhexyl)phthalate | 1.00J | 0.20B | 0.80J | -- | -- | 3800.00B | 5500B | -- | -- | 55.00BJ | -- | -- | 110.00BJ |
| Benzo(b)fluoranthene | -- | -- | -- | -- | -- | 930.00J | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | -- | -- | -- | -- | -- | 670.00J | -- | -- | -- | -- | -- | -- | -- |
| PESTICIDES (ppb) | | | | | | | | | | | | | |
| Heptachlor epoxide | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.50J | -- |
| Dieldrin | -- | -- | -- | -- | -- | -- | 4.00J | 1.00J | -- | -- | -- | 18.00J | -- |
| 4,4'-DDE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.00J |
| 4,4'-DDT | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 22.00J | -- |
| gamma-Chlordane | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.00J | -- |
| Aroclor-1260 | -- | -- | -- | -- | -- | 550.00J | -- | -- | -- | -- | -- | -- | -- |
| INORGANICS (ppm) | | | | | | | | | | | | | |
| Aluminum | -- | -- | 80.00B | 175.00 | 162.00 | 8000.00 | 4200.00 | 6300.00 | 16600.00 | 5200.00 | 1470.00 | 8400.00 | 3200.00 |
| Antimony | -- | -- | -- | -- | -- | 4.60 | 1.2 | -- | 0.60B | -- | -- | 0.60B | -- |
| Arsenic | 3.00B | -- | 51.00 | -- | -- | 1.70B | 0.9B | 2.20 | 8.60 | 3.50 | 1.8 | 11.00 | 3.00 |
| Barium | 260.00 | 47.00B | 690.00 | 43.00B | 43.00B | 200.00 | 74.00 | 66.00 | 170.00 | 61.00 | 22.00B | 98.00 | 74.00 |
| Beryllium | -- | -- | -- | -- | -- | -- | -- | 0.50B | 1.40 | 0.50 | 0.30B | 0.80B | 0.41B |
| Cadmium | -- | -- | 2.00B | -- | 15.00B | -- | -- | 3.60 | 9.30 | 3.00 | 0.80B | 7.60 | 1.70 |
| Calcium | 155000.00 | 115000.00B | 110000.00B | 99000.00 | 98000.00 | 20700.00 | 4600.00 | 11200.00 | 34900.00 | 3640.00 | 3900.00 | 18700.00 | 4100.00 |
| Chromium | 8.00B | 5.60B | 8.00B | 6.00B | 5.80B | 33.00 | 16.00 | 16.00 | 28.00 | 8.90 | 3.60 | 18.00 | 4.70 |
| Cobalt | 2.40B | 1.80B | 10.00 | 2.80 | 3.20B | 2.10B | -- | -- | 14.00 | 4.90B | 0.90B | 7.90B | 3.00B |
| Copper | -- | 2.00B | -- | 2.40B | 2.40B | 120.00 | 45.00 | 14.00 | 51.00 | 10.00B | 7.40 | 32.00 | 7.70 |
| Iron | 13500.00 | 336.00B | 14000.00B | 317.00 | 313.00 | 4900.00 | 3000.00 | 12600.00 | 32600.00 | 13500.00 | 3100.00 | 24700.00 | 6700.00 |
| Lead | 1.00B | -- | -- | -- | -- | 150.00 | 56.00 | 32.00 | 65.00 | 13.00 | 20.00 | 85.00 | 45.00 |
| Magnesium | 68000.00 | 45700.00 | 67000.00B | 41000.00 | 41000.00 | 2200.00B | 1160.00B | 6900.00B | 12800.00 | 13000.00 | 1700.00 | 6700.00 | 1500.00 |
| Manganese | 187.00 | 4.60B | 220.00B | 15.00B | 15.00B | 500.00 | 150.00 | 370.00 | 1100.00 | 560.00 | 44.00 | 800.00 | 370.00 |
| Mercury | -- | -- | -- | -- | -- | 0.16 | 0.17 | -- | 0.15 | 0.11 | -- | 0.14 | .02B |
| Nickel | -- | -- | 27.00B | -- | -- | 7.10B | 2.9B | 11.00 | 29.00 | 10.00 | 12.00 | 34.00 | 5.80B |
| Potassium | 29000.00 | 380.00B | 4300.00B | 1300.00B | 1300.00B | -- | -- | 680.00B | 1500.00 | 320.00B | 120.00B | 1100.00B | 550.00B |
| Silver | -- | -- | -- | -- | 2.30 | -- | -- | -- | -- | -- | -- | -- | -- |
| Sodium | 19000.00 | 128000.00B | 89000.00 | 11000.00 | 11000.00 | 390.00 | 1000B | 230.00B | 160.00 | 150.00B | -- | -- | -- |
| Thallium | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | -- | -- | -- | -- |
| Vanadium | -- | -- | -- | -- | -- | 11.00B | 7.7B | 16.00 | 36.00 | 9.50B | ^19.00 | 22.00 | 8.70B |
| Zinc | 12.00B | -- | -- | -- | -- | 570.00 | 140.00 | 71.00 | 250.00 | 51.00 | 58.00 | 250.00 | 58.00 |
| Cyanide | -- | -- | -- | -- | -- | 43.00 | 10.6 | -- | -- | -- | -- | -- | -- |
| Sulfate | 219000.00 | 68000.00B | 36000.00B | 85000.00 | 88000.00 | -- | -- | -- | -- | -- | -- | -- | -- |

-- indicates compound was analyzed but not detected.

A - CLP
IN OF CUSTODY

D077447

Seal #: 5575

Date Sealed: 11/20/89 By: AWW

cility
me : CELOTEX

Site Inventory # : 197 110 0002

gion: NORTHERN

Site Billing Code: SA-06

unty: WILL

Project Manager : JOHN MDREAN

| LABORATORY # | SAMPLE I.D | SAMPLE DATE | SAMPLE TIME |
|---|---|---|---|
| | TB | 11-20-89 | 2:00P |

mple Appearance : Clear

llector Comments: 30 DAY TURNAROUND

mpler Signature : Gregory W. D Division/Company IEPA

| CONTAINER | | | | ANALYSIS | FILTERING | | |
|---|---|---|---|---|---|---|---|
| No. | Code | Size | Pres | | (Y/N) | Date | Time |
| 2 | 8 | 40ml | | TRIP BLANK | N | 11-20-89 | 2:00P |

CHAIN OF CUSTODY CHRONICLE

rtify that I received the sample shipping container with the shipping container sealed and intact.

ceived by (print): Gregory W. Dunn Signature: Gregory W. D

te: 11-20-89 Time: 1:55P Seal #: 5575 Intact?: Y / N

rtify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the shipping container and that I sealed the sample shipping container at the date and time listed below.

lled by (print): Gregory W. Dunn Signature: Gregory W. D

te: 11-20-89 Time: 2:50P Seal #: 5576

urier - sample pickup: IEPA Personnel

urier - sample delivery:

rtify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and ach bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in stody of competent laboratory personnel at all times or locked in a secured area.

ceived by (print): Deanna Virgin Signature: Deanna Virgin

te: NOV 21 1989 Time: 11:50AM Seal #: 5576 Intact? Y / N

Name: Springfield IEPA Comments:

EPA - CLP
HAIN OF CUSTODY

D077448

Seal #: 5579

Date Sealed: 11/20/89 By: AWW

acility
ame : CELOTEX
egion: NORTHERN
ounty: WILL

Site Inventory # : 1971100002
Site Billing Code: SA-06
Project Manager : JOHN MORGAN

| LABORATORY # | SAMPLE I.D. | SAMPLE DATE | SAMPLE TIME |
|---|---|---|---|
| | X101 | 11-20-89 | 3:00 |

ample Appearance :

ollector Comments: SOIL , 30 DAY TURNAROUND

ampler Signature : John Morgan Division/Company IEPA/LPC

| CONTAINER | | | | ANALYSIS | FILTERING | | |
|---|---|---|---|---|---|---|---|
| No. | Code | Size | Pres | | (Y/N) | Date | Time |
| 2 | 12 | 2oz | | VOA | N | 11-20-89 | 3:00 |
| 1 | 5 | 32oz | | BNA, PEST/PCB | N | 11-20-89 | 3:00 |
| | | | | | N | 11-20-89 | 3:00 |

CHAIN OF CUSTODY CHRONICLE

ertify that I received the sample shipping container with the shipping container sealed and intact.

pened by (print): JOHN MORGAN Signature: John Morgan

ate: 11-20-89 Time: 7:15 Seal #: 5579 Intact? (Y) / N

ertify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the e shipping container and that I sealed the sample shipping container at the date and time listed below.

ealed by (print): JOHN MORGAN Signature: John Morgan

ate: 11-20-89 Time: 5:15 Seal #: 5580

ourier - sample pickup:

ourier - sample delivery:

ertify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody of competent laboratory personnel at all times or locked in a secured area.

ecived by (print): Deanne Virgin Signature: Deanne Virgin

NOV 21 1989 Time: 11:50 AM Seal #: 5580 Intact?: (Y) / N

Name Springfield EPA Comments:

D077448

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1971100002

b Code: SPFLD Case No.: CELTEX SAS No.: _____ SDG No.: D97744

trix: (soil/water) SOIL Lab Sample ID: D977448

mple wt/vol: 5.0 (g/mL) G Lab File ID: B1129BK04

vel: (low/med) LOW Date Received: 11/20/89

Moisture: not dec. 76 Date Analyzed: 11/29/89

lumn: (pack/cap) WIDE Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 42 | U | |
| 74-83-9 | Bromomethane | 42 | U | |
| 75-01-4 | Vinyl Chloride | 42 | U | |
| 75-00-3 | Chloroethane | 42 | U | |
| 75-09-2 | Methylene Chloride | 21 | U | |
| 67-64-1 | Acetone | 42 | U | |
| 75-15-0 | Carbon Disulfide | 21 | U | |
| 75-35-4 | 1,1-Dichloroethene | 21 | U | |
| 75-35-3 | 1,1-Dichloroethane | 21 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 21 | U | |
| 67-66-3 | Chloroform | 21 | U | |
| 107-06-2 | 1,2-Dichloroethane | 21 | U | |
| 78-93-3 | 2-Butanone | 42 | ~~U~~R | RT |
| 71-55-6 | 1,1,1-Trichloroethane | 21 | U | |
| 56-23-5 | Carbon Tetrachloride | 21 | U | |
| 108-05-4 | Vinyl Acetate | 42 | U | |
| 75-27-4 | Bromodichloromethane | 21 | U | |
| 78-87-5 | 1,2-Dichloropropane | 21 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 21 | U | |
| 79-01-6 | Trichloroethene | 21 | U | |
| 124-48-1 | Dibromochloromethane | 21 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 21 | U | |
| 71-43-2 | Benzene | 21 | U | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 21 | U | |
| 75-25-2 | Bromoform | 21 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 42 | U | |
| 591-78-6 | 2-Hexanone | 42 | U | |
| 127-18-4 | Tetrachloroethene | 21 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 42 | U | |
| 108-88-3 | Toluene | 31 | | |
| 108-90-7 | Chlorobenzene | 21 | U | |
| 100-41-4 | Ethylbenzene | 21 | U | |
| 100-42-5 | Styrene | 21 | U | |
| ---------- | Total Xylenes | 21 | U | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1971100002

b Code: SPFLD Case No.: CELTEX SAS No.: _____ SDG No.: D97744

trix: (soil/water) SOIL Lab Sample ID: D977448

mple wt/vol: 5.0 (g/mL) G Lab File ID: B1129BK04

vel: (low/med) LOW Date Received: 11/20/89

Moisture: not dec. 76 Date Analyzed: 11/29/89

lumn (pack/cap) WIDE Dilution Factor: 1.00

nber TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Name: ILLINOIS EPA Contract: 1971100002

Code: SPFLD Case No.: CELTEX SAS No.: _____ SDG No.: D97744

Matrix: (soil/water) SOIL Lab Sample ID: D977448

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK04

Level: (low/med) LOW Date Received: 11/20/89

Moisture: not dec. 76 dec. ____ Date Extracted: 11/22/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 430 | J |
| 111-44-4 | bis(2-Chloroethyl)Ether | 2700 | U |
| 95-57-8 | 2-Chlorophenol | 2700 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2700 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2700 | U |
| 100-51-6 | Benzyl Alcohol | 2700 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2700 | U |
| 95-48-7 | 2-Methylphenol | 2700 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 2700 | U |
| 106-44-5 | 4-Methylphenol | 1100 | J |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 2700 | U |
| 67-72-1 | Hexachloroethane | 2700 | U |
| 98-95-3 | Nitrobenzene | 2700 | U |
| 78-59-1 | Isophorone | 2700 | U |
| 88-75-5 | 2-Nitrophenol | 2700 | U |
| 105-67-9 | 2,4-Dimethylphenol | 2700 | U |
| 65-85-0 | Benzoic Acid | 840 | J |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 2700 | U |
| 120-83-2 | 2,4-Dichlorophenol | 2700 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2700 | U |
| 91-20-3 | Naphthalene | 2700 ~~56~~ | ~~B~~ U RT |
| 106-47-8 | 4-Chloroaniline | 2700 | U |
| 87-68-3 | Hexachlorobutadiene | 2700 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 2700 | U |
| 91-57-6 | 2-Methylnaphthalene | 2700 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 2700 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 2700 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 13000 | U |
| 91-58-7 | 2-Chloronaphthalene | 2700 | U |
| 88-74-4 | 2-Nitroaniline | 13000 | U |
| 131-11-3 | Dimethyl Phthalate | 2700 | U |
| 208-96-8 | Acenaphthylene | 2700 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 2700 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

ame: ILLINOIS EPA Contract: 1971100002

ode: SPFLD Case No.: CELTEX SAS No.: _____ SDG No.: D97744

x: (soil/water) SOIL Lab Sample ID: D977448

e wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK04

: (low/med) LOW Date Received: 11/20/89

sture: not dec. 76 dec. ____ Date Extracted: 11/22/89

ction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/89

leanup: (Y/N) Y pH: 6.0 Dilution Factor: 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 13000 | U | |
| 83-32-9 | Acenaphthene | 140 | ~~B~~J | RT |
| 51-28-5 | 2,4-Dinitrophenol | 13000 | U | |
| 100-02-7 | 4-Nitrophenol | 13000 | U | |
| 132-64-9 | Dibenzofuran | 50 | J | |
| 121-14-2 | 2,4-Dinitrotoluene | 2700 | U | |
| 84-66-2 | Diethylphthalate | 2700 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 2700 | U | |
| 86-73-7 | Fluorene | 78 | J | |
| 100-10-6 | 4-Nitroaniline | 13000 | U | |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 13000 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2700 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 2700 | U | |
| 118-74-1 | Hexachlorobenzene | 2700 | U | |
| 87-86-5 | Pentachlorophenol | 140 | J | |
| 85-01-8 | Phenanthrene | 2700 ~~790~~ | ~~BJ~~ U | RT |
| 120-12-7 | Anthracene | 2000 | ~~B~~J | RT |
| 84-74-2 | Di-n-Butylphthalate | 2700 | U | |
| 206-44-0 | Fluoranthene | 9400 | ~~B~~ | RT |
| 129-00-0 | Pyrene | 7400 | ~~B~~J | RT |
| 85-68-7 | Butylbenzylphthalate | 2700 | UJ | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5500 | UJ | |
| 56-55-3 | Benzo(a)Anthracene | 2600 | ~~B~~J | RT |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 3800 | ~~B~~UJ | RT |
| 218-01-9 | Chrysene | 2900 | ~~B~~J | RT |
| 117-84-0 | Di-n-Octyl Phthalate | 2700 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 930 | J | |
| 207-08-9 | Benzo(k)Fluoranthene | 2700 | U | |
| 50-32-8 | Benzo(a)Pyrene | 670 | J | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 2700 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 2700 | U | |
| 191-24-2 | Benzo(g,h,i)Perylene | 2700 | U | |

(1) - Cannot be separated from Diphenylamine

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X101

Name: ILLINOIS EPA Contract: 1971100002

Code: SPFLD Case No.: CELTEX SAS No.: _____ SDG No.: D97744

Matrix: (soil/water) _____ Lab Sample ID: D977448

Sample wt/vol: 30.0 (g/mL) ML Lab File ID: DEC15HK04T

Level: (low/med) LOW Date Received: 11/20/89

Percent Moisture: not dec. 76 dec. ____ Date Extracted: 11/22/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 0.0300

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 6.35 | 1700 | J |
| | UNKNOWN | 7.08 | 62000 | BAJ |
| | UNKNOWN | 8.74 | 980 | AJ |
| | UNKNOWN | 10.62 | 780 | AJ |
| | UNKNOWN | 20.17 | 550 | J |
| | UNKNOWN ALIP. HYDROCARBON | 20.27 | 490 | J |
| | UNKNOWN ALIP. HYDROCARBON | 20.95 | 760 | J |
| | UNKNOWN | 21.30 | 480 | J |
| | UNKNOWN | 21.35 | 440 | J |
| | UNKNOWN | 23.75 | 430 | J |
| | UNKNOWN | 27.49 | 1000 | J |
| | UNKNOWN ALIP. HYDROCARBON | 28.96 | 470 | J |
| | UNKNOWN ALIP. HYDROCARBON | 30.06 | 410 | J |
| | UNKNOWN ALIP. HYDROCARBON | 31.37 | 700 | J |
| | UNKNOWN ALIP. HYDROCARBON | 32.99 | 510 | J |
| | UNKNOWN ALIP. HYDROCARBON | 34.97 | 870 | J |
| | UNKNOWN ALIP. HYDROCARBON | 37.42 | 450 | J |
| | UNKNOWN ALIP. HYDROCARBON | 38.12 | 600 | J |
| | UNKNOWN | 40.51 | 400 | J |
| | UNKNOWN | 43.11 | 690 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X101

Lab Name: I.E.P.A. - Springfield Contract: Northen/Celotex

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Soil Lab Sample ID: D977448

Sample wt/vol: 7.151 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 11-21-1989

% Moisture: not dec. 76.22 dec. Date Extracted: 11-29-1989

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12-30-1990

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 67 | U |
| 319-85-7 | beta-BHC | 67 | U |
| 319-86-8 | delta-BHC | 67 | U |
| 58-89-9 | gamma-BHC (Lindane) | 67 | U |
| 76-44-8 | Heptachlor | 67 | U |
| 309-00-2 | Aldrin | 67 | U |
| 1024-57-3 | Heptachlor epoxide | 67 | U |
| 959-98-8 | Endosulfan I | 67 | U |
| 60-57-1 | Dieldrin | 135 | U |
| 72-55-9 | 4,4'-DDE | 135 | U |
| 72[illegible]-8 | Endrin | 135 | U |
| 33213-65-9 | Endosulfan II | 135 | U |
| 72-54-8 | 4,4'-DDD | 135 | U |
| 1031-07-8 | Endosulfan sulfate | 135 | U |
| 50-29-3 | 4,4'-DDT | 135 | U |
| 72-43-5 | Methoxychlor | 673 | U |
| 53494-70-5 | Endrin ketone | 135 | U |
| 5103-71-9 | alpha-Chlordane | 673 | U |
| 5106-74-2 | gamma-Chlordane | 673 | U |
| 8001-35-2 | Toxaphene | 1346 | U |
| 12674-11-2 | Arochlor-1016 | 673 | U |
| 11104-28-2 | Aroclor-1221 | 673 | U |
| 11141-16-5 | Aroclor-1232 | 673 | U |
| 53469-21-9 | Aroclor-1242 | 673 | U |
| 12672-29-6 | Aroclor-1248 | 673 | U |
| 11097-69-1 | Aroclor-1254 | 1346 | U |
| 11096-82-5 | Aroclor-1260 | 550 | J |

U.S. EPA - CLP

1

# INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: Illinois EPA Champaign Lab  Contract: CELOTEX

Lab Code: _____  Case No.: _____  SAS No.: _____  SDG No.: 18

Matrix (soil/water): _____  Lab Sample ID: B917033

Level (low/med): _____  Date Received: 11/21/89

% Solids: 23

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 8000 | | * | P |
| 7440-36-0 | Antimony | 4.6 | | N | F |
| 7440-38-2 | Arsenic | 1.7 | B | | F |
| 7440-39-3 | Barium | 200 | | | P |
| 7440-41-7 | Beryllium | 0.4 | U | | P |
| 7440-43-9 | Cadmium | 0.8 | U | | P |
| 7440-70-2 | Calcium | 20700 | | | P |
| 7440-47-3 | Chromium | 33 | U | | P |
| 7440-48-4 | Cobalt | 2.1 U | B | | P |
| 7440-50-8 | Copper | 120 | | | P |
| 7439-89-6 | Iron | 4900 | | * | P |
| 7439-92-1 | Lead | 150 | | S | F |
| 7439-95-4 | Magnesium | 2200 | B | | P |
| 7439-96-5 | Manganese | 500 | | | P |
| 7439-97-6 | Mercury | 0.16 | | | AS |
| 7440-02-0 | Nickel | 7.1 U | B | | P |
| 7440-09-7 | Potassium | 185 | U | | P |
| 7782-49-2 | Selenium | 0.8 | U | | F |
| 7440-22-4 | Silver | 1.6 | U | | P |
| 7440-23-5 | Sodium | 390 | B | | P |
| 7440-28-0 | Thallium | 0.6 | U | N | F |
| 7440-62-2 | Vanadium | 11 | B | | P |
| 7440-66-6 | Zinc | 570 | | | P |
| | Cyanide | 43 | | | AS |

Color Before: Gray  Clarity Before: Opaque  Texture: _____

Color After: Green  Clarity After: Clear  Artifacts: _____

Comments: