SAMPLING DATA

EPA Region 5 Records Ctr.

343495

Not for Computer

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

00220 JUL 11 LPCSM030

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded	(5) Public W S		

Name (Private Well, Stream, Spring, Impounded Water only): Ground Seepage

L P C S M 0 1 0 (1)–(8) SITE INVENTORY NUMBER General (9)–(16)

MONITOR POINT NUMBER X 1 0 2 (17)–(20) DATE COLLECTED 0 7 1 0 8 0 (21)–(26)

Cook Co. - LPC REGION N (27)

Lemont (Location), Schultz (Responsible Party)

Legal (1); Illegal (2); Indicate One: 1 (28) Board Order (X) (29)

Time Collected 3 00 a.m. p.m. Unable to collect sample (X) (30)

Stick-up ___ ft. (31)(33) Depth to water ___ ft. (from T.O.C.) (34)(36)

Sample temp. ___ ° (37)(39) Background (X). . . . (40)

Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) GRAB (41) 3

Sample Appearance: Dark Green [illegible]

Collector comments: Seepage [illegible] more examination of pit

Collected by [illegible] Div. or Company [illegible]

Transported by [illegible] Div. or Company [illegible]

LAB USE ONLY

Lab No. C000220

Date Rec'd 7.11.80

Rec'd by [illegible] Time 2130 a.m.

Sample temp. acceptable YES NO

Sample properly preserved YES NO

Date completed

Date forwarded 7-31-80

J Daugherty
Supervisor Signature

Name Environmental Protection Agency Division of Laboratory Services

Address of Lab 2200 Taylor Street Chicago, Illinois 60612

LPCSM020 Lab Comments:

(27)–(36)

(37)–(46)

(47)–(56)

(57)–(66)

(67)–(76)

Private Lab (X) (77)

IEPA Lab (X) (X)

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AUG 1 1980
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STATE OF ILLINOIS

		PARAMETERS*	PPM*
27		Alkalinity[1]	
31		Ammonia as N	
37	X	Arsenic As	0.006
44	X	Barium Ba	2.6
49		BOD -5	
53	X	[illegible]	
58	X	Cadmium Cd	0.01
64	X	Calcium Ca	238.X
69		COD	
73		[illegible] Cl	

LPCSM040

27	X	Chromium Cr (tot)	8.5X
33	X	[illegible]	
39	X	Copper Cu	0.83
45	X	Cyanide CN	0.09X
52		Fecal Coli (#/100 ml)	
56		[illegible]	
61		Hardness $CaCO_3$	
65	X	Iron Fe	31.2
70	X	Lead Pb	2.99

LPCSM050

27	X	Magnesium Mg	54.9
32	X	Manganese Mn	0.85
38	X	Mercury Hg	0.0008
46	X	Nickel Ni	6.9
51		Nitrate-nitrite N	
56		Oil and Grease	
60	X	pH (Units)	
63		Phenolics	
70	X	[illegible]	
76	X	Potassium K	144.X

LPCSM060

27		B.O.D. (180°F)	
31	X	Selenium Se	0.004
37	X	Silver Ag	0.00
44	X	Sodium Na	800.X
49		SC (umhos/cm)	
53		Sulfate SO_4	
58	X	Zinc Zn	19.4
63			

*Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

[1] Alkalinity is to be determined as ppm of $CaCO_3$ at pH 4.5.

H 21

00060 JUL-3

Time Collected: 11:15 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 6/30/80

Date Received 7-2-80

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

X102

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont / Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Soil sample taken from gulley behind plant.

PHYSICAL OBSERVATIONS, REMARKS:

Solid [illegible]

TESTS REQUESTED: ~~Lead [illegible]~~
[illegible] Cook

COLLECTED BY: Mary [illegible]

TRANSPORTED BY: [illegible]

Environmental Protection Agency
Division of Laboratory Services
2121 W. Taylor Street
Chicago, Illinois 60612

LABORATORY

RECEIVED BY: M. J[illegible]

DATE COMPLETED:

DATE FORWARDED: 7/31/8[illegible]

J Daugherty

As - 0.014
Ba - 0.0
B - 1.1
Cd - 0.00
Ca - 8.0
Cr - 0.36
Cu - 0.19
Cn - 0.03
Fe - 1.9

Mg - 8.0
Mn - 0.02
Hg - 61
Ni - 0.8
K - 71
P - 26.0
Pb - 0.00
Zn - 0.5

pH - 9.1
Alkalinity - 1000
PCB .06 ppm

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STATE OF ILLINOIS

C000060

LPC-SA 4/77

(NOT FOR DATA PROCESSING)

HW

00052 JUL-3

Time Collected: 11 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 6/30/80

Date Received 7-3-80

(X 101)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont/Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Drum on east side of site

PHYSICAL OBSERVATIONS, REMARKS:

Creamy white liquid

TESTS REQUESTED: Oils and Grease (Food Chem. analysis)

COLLECTED BY: Mary Schroeder

TRANSPORTED BY: [illegible]

LABORATORY Environmental Protection Agency
Division of Laboratory Services
2121 W. Taylor Street
Chicago, Illinois 60612

RECEIVED BY: N. J. [illegible]

DATE COMPLETED:

DATE FORWARDED: 7-8-80

Oils - Emulsion

RECEIVED

JUL 10 1980

ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

C000052

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

H W

Not for Compliance

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

00054 JUL-3

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded	(5) Public W S		

Name (Private Well, Stream, Spring, Impounded Water only)

(1) L P C S M 0 1 0 (8) SITE INVENTORY NUMBER (9) [illegible] (16)

MONITOR POINT NUMBER (17) X 1 0 3 (20) DATE COLLECTED (21) 0 6 3 0 8 0 (26)

Cook Co. - LPC REGION N (27)

Lemont (Location) / Schuitz (Responsible Party)

Legal (1); Illegal (2); Indicate One: (28) Board Order (X) (29)

Time Collected 1130 a.m. p.m. Unable to collect sample (X) (30)

Stick-up (31) . (33) ft. Depth to water (from T.O.C.) (34) . (36) ft.

Sample temp. (37) ° (39) Background (X). . . . (40)

Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) Grab (41) 3

Sample Appearance: Good water west of plant

Collector comments:

Brad Bennett — Collected by
[illegible] — Div. or Company
Brad Bennett — Transported by
[illegible] — Div. or Company

LAB USE ONLY

Lab No. C000054

Date Rec'd 7.2.80

Rec'd by [illegible] Time 11:00 a.m. p.m.

Sample temp. acceptable YES NO

Sample properly preserved YES NO

Date completed

Date forwarded 9-10-80

Supervisor Signature

Name Environmental Protection Agency
Address of Lab Division of Laboratory Services, 2121 W. Taylor Street, Chicago, Illinois 60612

LPCSM020
Lab Comments:

(27) 7 0.42 (36)

(37) (46)

(47) (56)

(57) (66)

RECEIVED
SEP 15 1980
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Private Lab (67)

IEPA Lab (77) N

		PARAMETERS+	PPM*
		LPCSM030	
27	✓	Alkalinity[1]	80.0
31	✓	Ammonia as N	0.09
37	✓	Arsenic As	0.006
44	✓	Barium Ba	0.0
49		BOD -5	
53	✓	Boron B	0.6
58	✓	Cadmium Cd	0.0
64	✓	Calcium Ca	84.X
69	✓	COD	35
73	✓	Chloride Cl	94
		LPCSM040	
27	✓	Chromium Cr (tot)	0.00
33	✓	Chromium Cr^{+6}	0.00
39	✓	Copper Cu	0.00
45	✓	Cyanide CN	0.00
52		Fecal Coli (per 100 ml)	
56	✓	Fluoride F	X
61		Hardness $CaCO_3$	
65	✓	Iron Fe	0.8
70	✓	Lead Pb	0.00
		LPCSM050	
27	✓	Magnesium Mg	60.3
32	✓	Manganese Mn	0.08
38	✓	Mercury Hg	0.0000
46	✓	Nickel Ni	0.0
52	✓	Nitrate-nitrite N	0.3
56	✓	Oil and Grease	0.
60	✓	pH (Units)	8.8
63	✓	Phenolics	0.000
70	✓	Phosphorus P	0.15
76	✓	Potassium K	17.0
		LPCSM060	
27		R.O.E. (180°C)	
31	✓	Selenium Se	0.002
38	✓	Silver Ag	0.00
44	✓	Sodium Na	55.4
49		SC (umhos/cm)	
53	✓	Sulfate SO_4	280.X
58	✓	Zinc Zn	0.0
63		[illegible]	0.XXXX

*Analyses are to be performed on unfiltered samples. +Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

[1]Alkalinity is to be determined to pH of [illegible] pH [illegible].

Date: 6/30/80

Time: 11:00 (A.M.) P.M.

Photograph By:

Brad Benning

Location: LPC- 03116205

Cook Co.

Lemont 1 Schultz

Comments: Photograph taken

toward the Northeast

1

Date: 6/30/80

Time: 11:00 (A.M.) P.M.

Photograph By:

Brad Benning

Location: LPC- 03116205

Cook Co.

Lemont 1 Schultz

Comments: Photograph taken

toward the west

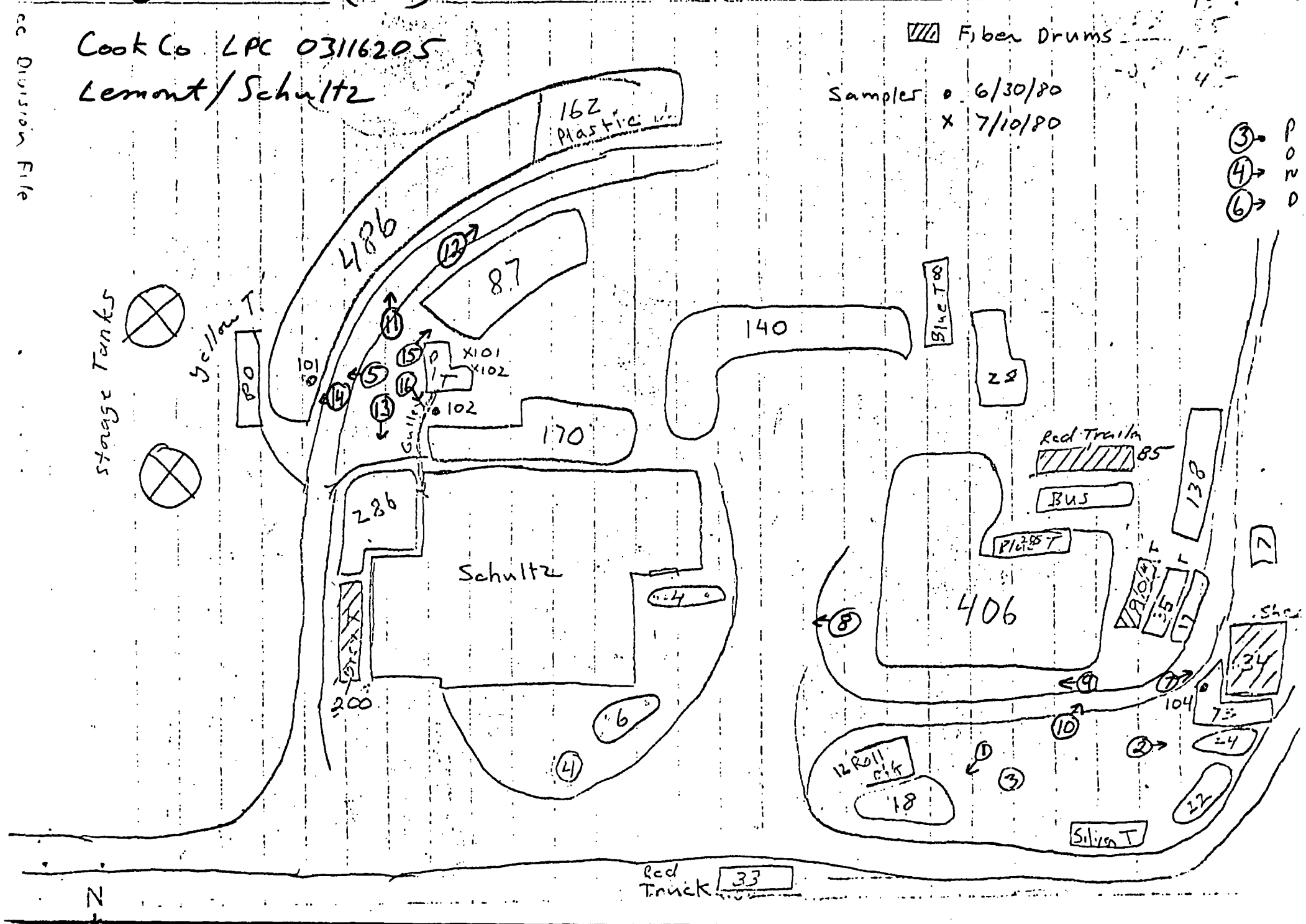
2

Photos of 6/30/80

Or (1-16) Total 2863

Cook Co LPC 03116205

Lemont/Schultz



cc Division File

00053 JUL-3

Time Collected: 11:15 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: [illegible]

Date Received 7.2.80

X102

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
[illegible]	Lemont-/Schaff-2	[illegible]

SOURCE OF SAMPLE: (Exact Location)

Soil sample taken from [illegible] of behind plant

PHYSICAL OBSERVATIONS, REMARKS:

Soil [illegible]

TESTS REQUESTED: Acid Digest

COLLECTED BY: [illegible]

TRANSPORTED BY:

LABORATORY: Environmental Protection Agency, Division of Laboratory Services, 2121 W. Taylor Street, Chicago, Illinois 60612

RECEIVED BY: M. J[illegible]

DATE COMPLETED:

DATE FORWARDED: 8-28-80

As	0.003	Mg	34.9
Ba	0.90	Mn	0.34
[illegible]		[illegible]	
Cd	0.002	[illegible]	0.29
Ca	59.4	K	3.6
Cr	1.02	[illegible]	
Co	0.38	[illegible]	0.025
[illegible]		[illegible]	2
Fe	49.6	Hg	0.1

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SEP 2 - 1980
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Results expressed in mg/gram

C000053

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

milligram/gram — ppm

WEZ

00053 JUL-3

Time Collected: 11:15 am

Lab #

SPECIAL ANALYSIS FORM

Date Collected: [illegible]

Date Received 7-2-80

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

X102

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont / [illegible]	[illegible]

SOURCE OF SAMPLE: (Exact Location)

Soil sample taken from alley behind plant.

PHYSICAL OBSERVATIONS, REMARKS:

[illegible]

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STATE OF ILLINOIS

TESTS REQUESTED: Heavy Metals

COLLECTED BY: [illegible]

TRANSPORTED BY: [illegible]

LABORATORY: Environmental Protection Agency
Division of Laboratory Services
2121 W. Taylor Street
Chicago, Illinois 60612

RECEIVED BY: M. Jackson

DATE COMPLETED:

DATE FORWARDED: 8-28-80

As – 0.003	Mg – 34.9	pH – J. Daughter
Ba – 0.90	Mn – 0.34	[illegible]
[illegible]	[redacted]	
Cd – 0.002	[illegible] – 0.29	
Ca – 59.4	K – 3.6	
[illegible] – 1.02	~~Hg~~	RECEIVED
Cu – 0.38	[illegible] – 0.025	SEP 03 1980
[illegible]	[illegible] – 2	E.P.A. – D.L.P.C.
Fe – 49.6	Hg – 0.1	STATE OF ILLINOIS

Results expressed in mg/gram

C000053

LPC-SA 4/77 (NOT FOR DATA PROCESSING)

HW

02653 DEC 74

Time Collected: 10:30-11:30 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 22-2-80

Date Received

X105

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont/JJ Shultz	03116205

SOURCE OF SAMPLE: (Exact Location)

Excavated Soil pile

PHYSICAL OBSERVATIONS, REMARKS:

TESTS REQUESTED: 48 hr. leach

COLLECTED BY: Brad Benning

TRANSPORTED BY:

LABORATORY: Environmental Protection Agency
Division of Laboratory Services
2121 W. Taylor Street
Chicago, Illinois 60612

RECEIVED BY:

DATE COMPLETED:

DATE FORWARDED: 1981 9- FEB

As 0.006
Cd 0.00
Ba 0.0
Cr 0.00
Pb <0.03
Hg 0.12
Ag 0.00
Se <0.001
CN 0.00
Cu 0.01

pH 8.0

Daugherty

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FEB 09 1981
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

C002653

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

E.P.A. — D.L.P.C.
STATE OF ILLINOIS

00055 JUL-3

Time Collected: [illegible]

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 6/20/80

Date Received 7.2.80

(x10P)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	[illegible]	[illegible]

SOURCE OF SAMPLE: (Exact Location)

Soil from drainage ditch west of plant

PHYSICAL OBSERVATIONS, REMARKS:

Solid Clay soil

TESTS REQUESTED: Solvents
[illegible]

COLLECTED BY:

TRANSPORTED BY:

LABORATORY: Environmental Protection Agency
Division of Laboratory Services
2121 W. Taylor Street
Chicago, Illinois 60612

RECEIVED BY: [illegible]

DATE COMPLETED:

DATE FORWARDED: 8-18-80

J Daugherty

As - 0.002
Cd - 0.00
Cr - 0.01
Hg - <0.05
Pb - 0.00
CN - 0.00
Zn - 0.0
K - 1.8
Na - 0.02
Mn - 6.5

pH - 8.0
[illegible] - 52

RECEIVED
AUG 25 1980
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

RECEIVED
AUG 25 1980
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

C000055

LPC-SA 4/77

(NOT FOR DATA PROCESSING)

milligram/liter PPM.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

00219 JUL 11

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded	(5) Public W S		

Name (Private Well, Stream, Spring, Impounded Water only)

(1) L P C S M 0 1 0 (8) SITE INVENTORY NUMBER (9) (16)

MONITOR POINT NUMBER (17) X 1 (20) DATE COLLECTED (21) (26)

Co. - LPC REGION (27)

(Location) (Responsible Party)

Legal (1); Illegal (2); Indicate One: 2 (28) Board Order (X) (29)

Time Collected a.m. p.m. Unable to collect sample (X) (30)

Stick-up (31) . (33) ft. Depth to water (from T.O.C.) (34) . (36) ft.

Sample temp. (37) ° (39) Background (X). . . . (40)

Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) (41)

Sample Appearance:

Collector comments:

Collected by Div. or Company

Transported by Div. or Company

LAB USE ONLY

Lab No. C000219

Date Rec'd 7.11.80

Rec'd by Time 2:30 a.m.

Sample temp. acceptable YES NO

Sample properly preserved YES NO

Date completed

Date forwarded 7-31-80

Supervisor Signature

Name Environmental Protection Agency
Address of Lab ~~Division of Laboratory Services~~ ~~2121 W. Taylor Street~~ ~~Chicago, Illinois 60612~~

LPCSM020
Lab Comments:

(27) F 0.21 (36)

(37) (46)

(47) (56)

(57) (66)

(67) (76)

Private Lab (X)

IEPA Lab (X) (77)

RECEIVED
AUG 1 - 1980
I.L.L. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

		PARAMETERS+	PPM*
		LPCSM030	
27	X	Alkalinity[1]	1800.
31	X	Ammonia as N	10.0X
37	X	Arsenic As	0.012
44	X	Barium Ba	0.3
49		BOD -5	
53	X	Boron B	0.8
58	X	Cadmium Cd	0.00
64	X	Calcium Ca	535.X
69	X	COD	3360.
73	X	Chloride Cl	260.
		LPCSM040	
27	X	Chromium Cr (tot)	0.02
33	X	Chromium Cr^{+6}	Interference
39	X	Copper Cu	0.07
45	X	Cyanide CN	0.07X
52		Fecal Coli (#/100 ml)	
56	X	Fluoride F	*
61		Hardness $CaCO_3$	
65	X	Iron Fe	34.7
70	X	Lead Pb	0.00
		LPCSM050	
27	X	Magnesium Mg	188.X
32	X	Manganese Mn	1.07
38	X	Mercury Hg	0.0008
46	X	Nickel Ni	0.5
51	X	Nitrate-nitrite N	0.4
56	X	Oil and Grease	55.
60	X	pH (Units)	7.5
63	X	Phenolics	1.750
70	X	Phosphorus P	1.7X
76	X	Potassium K	7.4
		LPCSM060	
27		R.O.E. (180°C)	
31	X	Selenium Se	0.004
38	X	Silver Ag	0.00
44	X	Sodium Na	230.X
49		SC (umhos/cm)	
53	X	Sulfate SO_4	Interference
58	X	Zinc Zn	0.3
63	X	Sulfide	0.XXXX

+Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

[1]Alkalinity is to be determined as ppm of $CaCO_3$ at pH 4.5.

RS-8410-01 IL-0303-20

Time Collected: 11 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 6/30/80

Date Received

(X 101)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont/Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Drum

PHYSICAL OBSERVATIONS, REMARKS:

Creamy white liquid

TESTS REQUESTED: Oils and Grease (Food Manf. waste?)

COLLECTED BY: Mary Schroeder TRANSPORTED BY: Reed Denning

LABORATORY

RECEIVED BY:	DATE COMPLETED:	DATE FORWARDED:

LPC-8A 4/77 (NOT FOR DATA PROCESSING) HW

Not for Computer

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded	(5) Public W S		

Name (Private Well, Stream, Spring, Impounded Water only)

(1) L P C S M 0 1 0 (8) SITE INVENTORY NUMBER (9) General (16)

MONITOR POINT NUMBER (17) X 1 0 3 (20) DATE COLLECTED (21) 0 6 3 0 8 0 (26)

Cook Co. - LPC REGION (27) N

Lemont (Location) / Schulte (Responsible Party)

Legal (1); Illegal (2); Indicate One: (28) Board Order (X) (29)

Time Collected 1130 a.m. p.m. Unable to collect sample (X) (30)

Stick-up (31) . (33) ft. Depth to water (from T.O.C.) (34) . (36) ft.

Sample temp. (37) ° (39) Background (X). . . . (40)

Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) Grab (41) 3

Sample Appearance: Pond water

Collector comments:

Brad Benning — Collected by
IEPA-DLPC — Div. or Company
Brad Benning — Transported by
IEPA-DLPC — Div. or Company

LAB USE ONLY

Lab No.

Date Rec'd

Rec'd by Time a.m. p.m.

Sample temp. acceptable YES NO
Sample properly preserved YES NO

Date completed
Date forwarded

Supervisor Signature

Name
Address of Lab

LPCSM020
Lab Comments:

(27) (36)
(37) (46)
(47) (56)
(57) (66)
(67) (76)

Private Lab (X) (77)
IEPA Lab (X) (78)

LPCSM030

		PARAMETERS+	PPM*
27	✓	Alkalinity[1]	
31	✓	Ammonia as N	
37	✓	Arsenic As	
44	✓	Barium Ba	
49		BOD -5	
53	✓	Boron B	
58	✓	Cadmium Cd	
64	✓	Calcium Ca	
69	✓	COD	
73	✓	Chloride Cl	

LPCSM040

27	✓	Chromium Cr (tot)	
33	✓	Chromium Cr^{+6}	
39	✓	Copper Cu	
45	✓	Cyanide CN	
52		Fecal Coli (#/100 ml)	
56	✓	Fluoride F	
61		Hardness $CaCO_3$	
65	✓	Iron Fe	
70	✓	Lead Pb	

LPCSM050

27	✓	Magnesium Mg	
32	✓	Manganese Mn	
38	✓	Mercury Hg	
46	✓	Nickel Ni	
51	✓	Nitrate-nitrite N	
56	✓	Oil and Grease	
60	✓	pH (Units)	
63	✓	Phenolics	
70	✓	Phosphorus P	
76	✓	Potassium K	

LPCSM060

27		R.O.E. (180°C)	
31	✓	Selenium Se	
38	✓	Silver Ag	
44	✓	Sodium Na	
49		SC (umhos/cm)	
53	✓	Sulfate SO_4	
58	✓	Zinc Zn	
63	✓	Sulfides	

+ Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

[1] Alkalinity is to be determined as ppm of $CaCO_3$ at pH 4.5.

H W

Time Collected: 11 45 Am

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 6/20/80

Date Received

X 103

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont/Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Pond on site

PHYSICAL OBSERVATIONS, REMARKS:

Cloudy liquid

TESTS REQUESTED: PCB, Solvents

COLLECTED BY: Brad Benning

TRANSPORTED BY: Brad Benning

LABORATORY

RECEIVED BY:	DATE COMPLETED:	DATE FORWARDED:

LPC-SA 4/77

(NOT FOR DATA PROCESSING)

Time Collected: 11 30 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 6/30/80

Date Received

X104

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont/Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Drum

PHYSICAL OBSERVATIONS, REMARKS:

Thick dark oil

TESTS REQUESTED: PCB

COLLECTED BY: Mary Schroeder TRANSPORTED BY: BROBERING

LABORATORY

RECEIVED BY:	DATE COMPLETED:	DATE FORWARDED:

LPC-SA 4/77 (NOT FOR DATA PROCESSING) HW

Time Collected: 12 15 pm

Date Collected: 6/30/80

Lab #

SPECIAL ANALYSIS FORM

Date Received

(x108)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lamont/Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Soil from drainage ditch

PHYSICAL OBSERVATIONS, REMARKS:

Solid Clay soil

TESTS REQUESTED: Solvents

48hr leach

COLLECTED BY: TRANSPORTED BY:

LABORATORY

RECEIVED BY:	DATE COMPLETED:	DATE FORWARDED:
As	pH	
Cd	Alkalinity	
Cu		
Hg		
Cr		
CN		
Zn		
K		
Mn		
Mg		

LPC-SA 4/77

(NOT FOR DATA PROCESSING)

Time Collected: 11:15 AM

Date Collected: 6/30/80

Lab #

SPECIAL ANALYSIS FORM

Date Received

X102

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Cook	Lemont / Schultz	General

SOURCE OF SAMPLE: (Exact Location)

Soil sample taken from gulley

PHYSICAL OBSERVATIONS, REMARKS:

Solid fibrous material - stained

TESTS REQUESTED: Acid Digest
48 hr Leach

COLLECTED BY: MARY SCHROEDER TRANSPORTED BY: BRAD BENNING

LABORATORY

RECEIVED BY:	DATE COMPLETED:	DATE FORWARDED:
As	Mg	pH
Ba	Mn	Alkalinity
B	Hg	
Cd	Ni	
Ca	K	
Cr	P	
Cu	Ag	
CN	Zn	
Fe		

LPC-SA 4/77 (NOT FOR DATA PROCESSING) HW

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

Low Concentration Soils

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

IL-0303-13
RS-8410-01

PROJ. NO.: 5-8410-01 Case 4234
PROJECT NAME: J.J. Schultz Container
SAMPLERS (Signature): [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Metals							REMARKS OTR	REMARKS ITR
Soil 1	5-1-85	1010	X		Soil 1	1	1							ED075	MED046
Soil 2	5-1-85	1023	X		Soil 2	1	1							ED076	MED047
Soil 3	5-1-85	1045	X		Soil 3	1	1							ED077	MED048
Soil 4	5-1-85	1100	X		Soil 4	1	1							ED078	MED049
Soil 5	5-1-85	1130	X		Soil 5	1	1							ED079	MED050
														8 oz jar lot # 64278362	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5-1-85 1330				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Shipped via Federal Express to Rocky Mountain Analytical Custody seals 37531, 37532 Airbill # 276074120	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

E-10867

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

Low Concentration Soils

CHAIN OF CUSTODY RECORD

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

PROJ. NO.: RS8H0-01 Case 4274
PROJECT NAME: J.J. Schultz Container
SAMPLERS (Signature): [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Organics - Pesticides	VOA - volatile					REMARKS OTR	REMARKS ITR
Soil 1	5/1/85	1010	X		Soil 1	3	1	2					ED075	MED046
Soil 2	5/1/85	1023	X		Soil 2	3	1	2					ED076	MED047
Soil 3	5/1/85	1037	X		Soil 3	3	1	2					ED077	MED048
Soil 4	5/1/85	1103	X		Soil 4	3	1	2					ED078	MED049
Soil 5	5/1/85	1130	X		Soil 5	3	1	2					ED079	MED050

8oz jar lot # 64278362
VOA 120ml lot # 45004052

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/1/85 1330				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Shipped via Federal Express to Environmental Control Technology Corp Airbill # 276 074116 custody seals 37533, 37534	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5-10966

OFFICE BUILDING, SPRINGFIELD,
R SURVEYS SECTION. BE SURE TO

GEOLOGICAL WATER SURVEYS WATER WELL RECORD
October 1975

10. Dept. Mines and Minerals permit No. 41853 Year 1975
11. Property owner Lemont Shipbuilding Well No. 1
Address Box 370 Lemont Ill
Driller JP Miller Artesian Well License No. 102-1
12. Water from Niagaran Formation 13. County Cook
at depth 82 to 156 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 19
Twp. 37N
Rng. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT
1200' SL 1650' WL SW
(permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
10"	steel 41 lb.	0	11
7" OD	steel 24 lb.	0	80
7"	cemented in place		

16. Size Hole below casing: 7 in.
17. Static level 14 ft. below casing top which is 1 ft. above ground level. Pumping level 34 ft. when pumping at 25 gpm for 1 hours.
Sub pump set at 40'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	11	11
Niagaran Dolomite	104	115
Shale	41 52	156
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED R.C. Schlack DATE 11-22-75

COOK COUNTY No. 25809 19-37N-11E

GICAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD
Steve Gurca Completed 7-22-71

10. Property owner STEVE GURCA Well No. 1
Address RT. # 2 - LEMONT
Driller CORPORATE WELL DRILL License No. 180
11. Permit No. 13177 Date 6-24-71
12. Water from LIMESTONE Formation 13. County COOK
at depth 40 to 100 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 19
Twp. 37N
Rge. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT
NE NW NW
(Permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0'	40'

16. Size Hole below casing: 5 in.
17. Static level 55 ft. below casing top which is +1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
TOP SOIL	1'	1'
CLAY	2'	3'
BOULDERS	12'	15'
LIME	85'	100'
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Charles Tyler DATE 7-29-71

S. 1304

COOK 19-37N-11E

IL-0303-14

RS-8410-01

REQUESTED AND MAIL ORIGINAL TO DIVISION OF
NSUMER HEALTH PROTECTION, 535 WEST
1761. DO NOT DETACH GEOLOGICAL/WATER
DE PROPER LOCAT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed May 16, 1979

10. Property owner Mr. Ron Pitelka Well No. _____
Address Rt. 1 Box 282-RA Frankfort, Il.
Driller Will-DuPage Drilling License No. 102-000445
11. Permit No. 85126 Date 5- 2-79
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____

Sec. 20
Twp. 37N
Rge. 11E
Elev. ____

SHOW LOCATION IN SECTION PLAT
SW SW SW
(Permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Black Steel 14.98	0	40

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is ____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Gravel	40	40
Limestone	105	145

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 5-21-79

COUNTY NO 26395

COOK 20-37N-11E

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-303			
Silty clay & topsoil, trace sand & gravel, brn & gray			2.0
Cinder fill, some topsoil, trace roots, blk, moist			2.5
Silty, clayey, fine to med. sand, trace gravel, brn, moist			5.0
Silty clay, trace sand, lt. brn & gray, stiff			8.0
Weathered rock			10.0
Dolomite, lt. gray, slightly vuggy occas. thin seams of gry-grn shale			66.0
Dolomite, slightly red, slightly vuggy occas. thin seams of gray-grn & red shale			80.0

Soil report with 7 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE

Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #3 NO. B-303
DATE DRILLED February 14, 1974 COUNTY NO. 25297
AUTHORITY Company
ELEVATION 595.3' G.L.
LOCATION SW, SE, SE,
COUNTY COOK

19-37N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-1			
Miscellaneous Fill			13.0
Rock @ 13'			15.0
Light gray to white, dense crystalline dolomite, with beds			20.5
Light gray to reddish gray, slightly porous crystalline dolomite with thin seams of green claystone			28.5
Brownish gray, porous crystalline dolomite with vertical fractures			41.5
Light gray to white, slightly porous to dense crystalline dolomite fractured			60.0

Soils report with 19 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE **Received from Warrenville 7/9/76**

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #1 NO. B-1
DATE DRILLED April 4, 1973 COUNTY NO. 25298
AUTHORITY Company
ELEVATION 600.6' G.L.
LOCATION SW, NW, SE
COUNTY. COOK

20-37N-11E

INSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
DE PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 5/10/76

10. Property owner Tiedt Trucking Well No. ____
Address Lemont Rd. & Bluff Rd. Lemont, Ill.
Driller DuPage Pump, Inc. License No. 102-3
11. Permit No. 46841 Date 5-5-76
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____
Sec. 20
Twp. 37N
Rge. 11E
Elev. ____

SHOW LOCATION IN SECTION PLAT
NE NE NW
(permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	42

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 4" ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 100'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	0	42
Limestone	58	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Omer Yeoman DATE 5-13-76

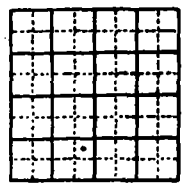
COUNTY No. 25194

COOK 20-37N-11E

ENGINEERING BORING	Thickness	Top	Bottom
B_306			
Cinders & fill			4.0
Weathered rock			7.0
Dolomite, lt. gray, dense			17.0
Dolomite, lt. gray, occas. thin seams of shale, slightly vuggy, highly fractured @ app. 51', vert. frac. 48'-52'			52.0
Dolomite, lt. gray, slightly vuggy, occas. thin shale seam & chert nodules			66.0
Dolomite, lt. to med. gray, slightly vuggy, occas. thin seams of shale, 5" layer of dk. gray-grn shale @ 81', fract. from 85'-86'			86.0

Soils report with 7 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE
Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #3 NO. B-306
DATE DRILLED February 15, 1974 COUNTY NO. 25300
AUTHORITY Company
ELEVATION 600.8' G.L.
LOCATION NE, SE, SW
COUNTY COOK

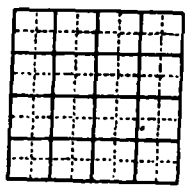


20-37N-11E

ENGINEERING BORING	Thickness	Top	Bottom
B-107			
Fill			
Broken rock			2.5
Dolomite, lt. gry, occas. thin seams of gry-grn shale & chert nodules dense			6.0
Dolomite, lt. gray, occas. thin seams of gray-grn shale, slightly vuggy vert. fract. (57'-58')			28.0
Shale, dk gry-grn, w/ thin seams of dolomite			82.8
Dolomite, lt. gry, occas. thin seams of gry-grn shale			84.5
			92.6

Soils report with 9 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE
Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #1 NO. B-107
DATE DRILLED February 23, 1974 COUNTY NO. 25299
AUTHORITY Company
ELEVATION 603.1' G.L.
LOCATION SW, NE, SE
COUNTY COOK



20-37N-11E

(8811—50M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Drift	8		
Total Depth			2284
Plugged back			1665

Casing: 10" - 297'
6" - 2284'

In 1923 non-pumping level was 60' below top of casing.
Pumping at 142 gallons per minute.

This well was cleaned out and new pipe installed in 1934 by J.P. Miller.

Casing: 8" - 16'
10" - 354'
10" - 60' caving badly

Size of hole 8" - 51'
6" - 783'

NO ENVELOPE

COMPANY S.B. Geiger
FARM Village of Lemont NO. 2
DATE DRILLED 1891 or 1892 COUNTY NO. 1548
AUTHORITY Otto & Bulletin 40
ELEVATION 596'
LOCATION App. 1900' S line, 2250' E line of SE
COUNTY COOK

20-37N-11E

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-463			
Asphalt (1"), Concrete (8")			.9
Misc. fill, clay & sand			3.5
Silty, sandy, gravelly clay, brn & slighty lt. gray, med. to stiff			8.5
Silty, gravelly, clayey sand, brn. & rust brn, & dark gray moist			14.0
Broken rock			20.0
Dolomite, light gray, dense, small void			39.0
Dolomite, lt. gray, slit. vuggy to vuggy, with occas. zones of thin seams of gray-grn shale & chert nodules.			95.0
Dolomite, light gray & slightly red, zone of red shale (95-98.5') & thin seams throughout, slighty vuggy			112.0

Soils report with 12 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE
Received from Warrenville 7/9/76

COMPANY Soil Testing Services
FARM *Lemont Inter. Sewer #4B NO. B-463
DATE DRILLED February 27, 1974 COUNTY NO. 25301
AUTHORITY Company
ELEVATION 625.7' G.L.
LOCATION SW, SW, SE
COUNTY COOK

20-37N-11E

REQUESTED AND MAIL ORIGINAL TO STATE
AU OF ENVIRONMENTAL HEALTH, 535 WEST
'01. DO NOT DETACH GEOLOGICAL/WATER
E PROPER WELL LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed June 6, 1977

10. Property owner Anthony Macebieius Well No. 1
Address Lot #124 - 1229 118th, Lemont
Driller Charles Fykes License No. 23
11. Permit No. 58568 Date 4-4-77
12. Water from Limestone (Formation) 13. County Cook
at depth 110 to 185 ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____
Sec. 21
Twp. 37N
Rge. 11E
Elev. ____

			X

SHOW LOCATION IN SECTION PLAT

SE SE SE

PERMIT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	110'

16. Size Hole below casing: 5 in.
17. Static level 110 ft. below casing top which is +1 ft. above ground level. Pumping level 130 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	30'	30'
Gravel	8'	38'
Clay	~~40'~~ 32	70'
Sand	6'	76'
Gravel	13'	89'
Clay	15'	104'
Sand	6'	110'
Limestone	75'	185'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE March 12, 1979

COOK COUNTY 0-26365 21-37N-11E

(22844—50M—9-55)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Top soil	3	0	3
Yellow clay	10	3	13
Blue clay and gravel	30	13	43
Yellow clay gravel and sand	20	43	63
Yellow sand and clay	19	63	82
Finished in lime at 82' to 157'			TD
Cased with 5" black			
Water lowered to 95'			
S.S. # 30240			

COMPANY Du Page Well Drillers
FARM
DATE DRILLED 1957
AUTHORITY Du Page Well Drillers
ELEVATION
LOCATION Houston & McCarthy Road
COUNTY COOK

NO. 6
COUNTY NO. 125

20-37N-11E

REQUESTED AND MAIL ORIGINAL TO STATE
NSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
IE P[redacted]R LOCAT[redacted]

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Village of Lemont Well No. _____
Address Huston Rd. Lemont, IL
Driller R. H. Wahling License No. 102-223
11. Permit No. 75752 Date June 19, 1978
12. Water from _____ (Formation) 13. County Cook
at depth ____ to ____ ft. Sec. 29
14. Screen: Diam. ____ in. Twp. 37N
Length: ____ ft. Slot _____ Rge. 11E
1170'S & 120' W of NE of above Elev. _____

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
20	Black steel	+1	116'
16	Black steel		1150'
	cemented in		

1170'NL 120'EL NE (permit)

16. Size Hole below casing: _____ in. not tested yet.
17. Static level ____ ft. below casing top which is _____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours. Shot record: 1651 - 58' 900 #

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift SS #	116	116
Lime 61635	142	258
Shale	135	393
Dolomite with shale	20	413
Shale	75	488
Lime	25	513
Dolomite	320	833
Sand	250	1083
Lime with shale	70	1153
Lime	30	1183
Lime with shale	55	1238
Lime	155	1393
Shale with sand	60	1453

(CONTINUE ON SEPARATE SHEET IF NECESSARY) (cont.)

Wahling Well Works, Inc.
SIGNED R. H. Wahling Jr. DATE 8/22/78
S.S. # 61635
(0 - 1670')

COOK COUNTY No. 25832 29-37N-11E

UMER HEALTH PROTECTION, 535 WEST
I. DO NOT DETACH GEOLOGICAL/WATER
PROPER W[redacted] LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 9-28-78

10. Property owner Mike Madden Well No. _____
Address 134 W. Hay Ave., Lemont, Ill.
Driller Kurt Kuehn License No. 92-117
11. Permit No. 79899 Date 9/22/78
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft. Sec. 29
14. Screen: Diam. ____ in. Twp. 37N
Length: ____ ft. Slot _____ Rge. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 14.98	0	85

L. 7 Lemont High lands S.d. S/2 SE SW (permit)

16. Size Hole below casing: 5 in.
17. Static level 110 ft. below casing top which is _____ ft. above ground level. Pumping level 110 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 140'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	85	85
Limestone	100	185

RECEIVED
OCT 26 1978
REGION 2A I.D.P.H.

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Kenneth Kuehn DATE Oct. 19, 1978

COOK COUNTY No. 26209 29-37N-11E

STATE OFFICE BUILDING, SPRINGFIELD,
L / WATER SURVEYS SECTION. BE SURE TO

16
IC

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 2-17-73

10. Property owner D. Lazar Well No. _____
Address 127th Street, Lemont, Illinois
Driller DuPage Pump, Inc. License No. 92-147
11. Permit No. 21613 Date 1/26/73
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____
Sec. 29
Twp. 37N
Rge. 11E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	115'

SHOW LOCATION IN SECTION PLAT

Lot 10 Lemont Highlands S/2 SE SW (Permit)

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is ____ ft. above ground level. Pumping level 125 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	115'	115'
Limestone	60'	175'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Omer Yeoman DATE 2/20/73

COUNTY No. 1317

COOK 29-37N-11E

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-456			
Silty clayey topsoil, trace roots, dark gray			1.0
Silty clay, trace roots & sand, brn. & slighty gray, very stiff			3.5
Silty clay, trace to some sand, trace gravel, brn & gray, irr. seams of light gray silt (5-13'), vert. seams of red brn silt (20-22') hard to very hard			23.0
Silty clay, trace sand & gravel, gray stiff to very stiff, (cobb. 25-45') (Bould. 52.5-53.5')			55.0
Clayey silt, gray, with irr. seams of lt. gray silt, stiff to very stiff, wet			61.0
Silty clay, trace to some sand & gravel, gray, stiff to hard			85.0
Boulders			95.0
Silty, very fine sand, trace to some gravel, trace clay, gray-brn, ext. dense			100.0
Dolomite, lt. to med. gray, fract. (100-110.9') slighty vuggy			113.0
Dolomite, lt. to med. gray, dense, occas. chert nodules & thin seams of gray-grn shale, cherty (132-137'), slighty fractured (144-149')			185.0
Dolomite, lt. - med. gray, slight. vuggy, occ. thin seams of gray-grn shale			231.3

Soils report with 12 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE Received from Warrenville 7/9/76

COMPANY Soil Testing Services
FARM *Lemont Inter. Sewer #4B NO. B-456
DATE DRILLED January 3, 1974 COUNTY NO. 25306
AUTHORITY Company
ELEVATION 747.5' G.L.
LOCATION SW, SW, SE
COUNTY COOK

29-37N-11E

SHEET 2 T. 37 N. R. 11 E S. 29

COMPANY W. L. Thorne Co. NO.

FARM Lemont City Well NO.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Blue shale, hard, caving at 320-325 feet	90		365	
	Shale, blue, gray & red	5		370	
	Shale and lime rock	20		390	
	Shale, caving	25		415	
	Shale, brown, caving	50		465	
	Blue and brown shale, caving	5		470	
	Oily brown shale, lime rock, caving	5		475	
	Mohawkian series				
	Galena-Platteville formations				
	Trenton lime & shale	5		480	
	Trenton lime, hard	343		823	
	Glenwood formation				
	Sand and shale	52		875	
	Chazyan series				
	St. Peter formation				
	Sandrock, hard	260		1135	
	Sandrock, hard, white, coarser	5		1140	
	Sandrock, hard	95		1235	

COUNTY COOK

SAMPLE SET NO.

(41512—20M—8-47) 2 29-37N-11E

Index No. 2029

ILLINOIS GEOLOGICAL SURVEY, URBANA

SP

Map No. 20 (3)

R. 11 E

COMPANY W. L. Thorne Co. NO.

FARM Lemont City Well NO.

DATE DRILLED 1925

AUTHORITY W. L. Thorne Co.

COLLECTOR Correlations by LEW

ELEVATION

T 37 N, Sec 29

1800' S, 2500' E of NW cor. Sec. 29

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Pleistocene system				
	Wisconsin glacial drift				
	Red clay	10		10	
	Red clay & boulders	10		20	
	Blue clay	10		30	
	Gravel	5		35	
	Blue clay	5		40	
	Brownish clay, gravel	5		45	
	Brownish clay	5		50	
	Blue clay	5		55	
	Gravel	5		60	
	Blue clay	5		65	
	Blue clay, gravel	5		70	
	Blue clay, hardpan	5		75	
	Gravel, hardpan	15		90	
	Boulders, hardpan	10		100	
	Limestone, hardpan	15		115	
	Silurian system				
	Niagaran & Alexandrian series				
	Lime rock, hard	5		120	
	Lime rock, hard, flint	20		140	
	Lime rock, hard	100		240	
	Ordovician system				
	Cincinnatian series				
	Maquoketa formation				
	Red shale, soft	5		245	
	Blue shale, soft	15		260	
	Blue shale, harder	15		275	

COUNTY COOK

SAMPLE SET NO.

(41512—20M—8-47) 2 29-37N-11E

Index No. 2029

ILLINOIS GEOLOGICAL SURVEY, URBANA

(65600—60M—10-57) 2

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Clay	20	0	20
Clay & gravel - muc	74	20	94
Broken limestone	34	94	128
Limestone	140	128	268
Limestone & shale	5	268	273
Shale	124	273	397
Limestone	17	397	414
Shale	84	414	498
Limestone	348	498	846
Sandstone	247	846	1093
Shale & limestone	471	1093	1464
Sandy limestone	40	1464	1504
Sandstone	67	1504	1571
Limestone	5	1571	1576
Sandstone	72	1576	1648
Shale & limestone	75	1648	1723

420

Hole shot with 8 qts. solidified nitro glycerine, at 1646, 1642, 1625, 1608, 1600, 1580, 1560, 1540

Hole size: 20" 0-118½' 19" 118 -119' 15½" 519-1152; 12" 1152-1723'

Casing Record 20" 0-118½',16" 0-520'(cemented) 12" 1087-1152'

SS #45591

COMPANY Walling Well Works
FARM Village of Lemont NO. #4
DATE DRILLED 1963, Oct. COUNTY NO.
AUTHORITY
ELEVATION 742
LOCATION Cook 650'N, 2275'W, SE cor.
COUNTY Cook

37N-11E-29.4b

LOG OF WATER WELL

Property owner Chicago Angeles Well No.

Drilled by Simpson Year 19[illegible]

Formations passed through		Thickness	Depth of Bottom
[illegible]	[illegible]	118	118
[illegible]	Rock	42	160
715			
160			
555			
[illegible]			
[illegible]			
[illegible]			

(Continue on back if necessary)

Finished in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

(Show location in Section Plat)

Township name Lemont Elev. 715 Sec. 29

Description of location Twp. 37N

Joliet Rge. 11E

Signed C.G. Johnson County Cook

Copy for Illinois State Geological Survey 1942 Index: 29-37N-11E

, STATE OFFICE BUILDING, SPRINGFIELD,
:AL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 8-21-74

10. Property owner Edmund Chmielewski Well No. _____
Address 148 New Avenue, Lemont, Illinois
Driller DuPage Pump, Inc. License No. 92-147
11. Permit No. 25853 Date October 5, 1973
12. Water from Rock (Limestone) Formation 13. County Cook
at depth ____ to ____ ft. Sec. 30
14. Screen: Diam. ____ in. Twp. 37N
Length: ____ ft. Slot _____ Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	42'

SHOW LOCATION IN SECTION PLAT
Lot 2, County Clerk's Subd., NW NE (Permit)

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 20 ft. when pumping at 10 gpm for 2 hours. Submersible pump set at 60'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	42'	42'
Limestone	58'	100'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 8-21-74

COUNTY No. 24753

COOK 30-37N-11E

(91182—20M—4-54) 2

3

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
No record		0	95
Broken lime		95	125
Brown clean lime		125	170
Gray lime		170	238
Blue shale		238	241 TD

Water at 140'
Water level 110'

Casing: 128' of 12" I.D.

Water at 140'
Yield: 550' Galls. per minute.

COMPANY J. P. Miller Drlg. Co.
FARM Village of Lemont NO. 2
DATE DRILLED December 1954 COUNTY NO.
AUTHORITY J. P. Miller Drlg. Co.
ELEVATION
LOCATION 500' S. line, 100' W. line SE
COUNTY COOK

29-37N-11E

QUESTED AND MAIL ORIGINAL TO STATE
UMER HEALTH PROTECTION, 535 WEST
1. DO NOT ATACH GEOLOGICAL/WATER
PROPER W LOCATIO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-22-76

10. Property owner Family Living Blds Well No. _____
Address Palos Park Ill
Driller K-K Well Drilling License No. 102-29
11. Permit No 54574 Date 11-4-76
12. Water from Rock (Formation) 13. County Cook
at depth 95 to 320 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 30
Twp. 37N
Rge. 11E
Elev. —

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15 lbs	0	173

SHOW LOCATION IN SECTION PLAT
Lot #27 Ramsgate Dr., Lot 7 SE NW SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 95 ft. below casing top which is 1 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 126' TOP

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~	DEPTH OF BOTTOM
Overburden	0	173
Rock Formation	173	320

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12-27-76

COUNTY No. 25524

COOK 30-37N-11E

DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-6-74

10. Property owner Rawn, Inc. Well No. _____
Address Ramsgate Drive Palos Park, Ill.
Driller K-K Well Drilling License No. 102-29
11. Permit No. 54176 Date July 11, 1974
12. Water from Limestone (Formation) 13. County Cook
at depth 86 to 330 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Galv. 15 lbs	0	208

SHOW LOCATION IN SECTION PLAT
Lot #3 NE SW SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 86 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 126'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	208
Rock Formation	208	330

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12-26-74

COUNTY No. 24449

COOK 30-37N-11E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 3-[illegible]-74

10. Property owner Rauen Inc. Well No. _____
Address Ramsgate Drive Palos Park
Driller K & K Well Drilling License No. 102-29
11. Permit No. 27255 Date Jan. 17, 1974
12. Water from Limestone Formation 13. County Cook
at depth 86 to 320 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Galv. 15 LBS	0	173

SHOW LOCATION IN SECTION PLAT
Lot #18 SE NW SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 86 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 126'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	173
Rock Formation	173	320

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12-26-74

COUNTY No. 24870

COOK 30-37N-11E

. DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATI[illegible]

GEO[illegible]CAL A[illegible] WATER SURVEYS WELL [illegible]ECORD

Completed [illegible]-13-74

10. Property owner Donald McGrath Well No. _____
Address Palos Park 100 Block 19 Ramsgate Drive
Driller K & K Well Drilling License No. 102-29
11. Permit No. 32997 Date Sept. 13, 1974
12. Water from Limestone Formation 13. County Cook
at depth 120 to 300 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Galv. 15 lbs	0	180

SHOW LOCATION IN SECTION PLAT
Lot #19 Ramsgate SW NE SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 120 ft. below casing top which is 2 ft. above ground level. Pumping level 160 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 160'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	180
Rock Formation	180	300

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12-24-74

COUNTY No. [illegible]

COOK 30-37N-11E

ICAL /WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL REC

Completed 5-31-74

10. Property owner Bauer Inc Well No. _____
Address Palos Park Rd Lot 4
Driller K-Well Drilling License No. 102-29
11. Permit No. 36646 Date Nov. 21 1973
12. Water from Limestone (Formation) 13. County Cook
at depth 123 to 280 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 20
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Galv. 15 lbs	0	209

SHOW LOCATION IN SECTION PLAT
Lot 4, Ramsgate Subd., SE (Permit)

16. Size Hole below casing: 5 in.
17. Static level 123 ft. below casing top which is 2 ft. above ground level. Pumping level 163 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 163'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	209
Rock Formation	209	280

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 6-5-74

COUNTY No. 24821

COOK 30-37N-11E

NSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
E PROPER LOCAT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-28-77

10. Property owner Joe Aceto Well No. _____
Address Lot 22
Driller K-Well Co. License No. 102-B4
11. Permit No. 59499 Date 4/27/77
12. Water from Limestone (Formation) 13. County Cook
at depth 130 to 300 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Blk	0	200

SHOW LOCATION IN SECTION PLAT
Lot #22, Ramsgate Subd., S (permit)

16. Size Hole below casing: 5 in.
17. Static level 132 ft. below casing top which is 2 ft. above ground level. Pumping level 189 ft. when pumping at _____ gpm for _____ hours. Sub. pump set at 189'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	200	200
Rock Formation	100	300

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE 5/9/77

COUNTY No. 25562

COOK 30-37N-11E

CAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-20-73

10. Property owner Rauen Inc. Well No. _____
Address Palos Park Illinois
Driller B & K Well Drilling License No. 102-29
11. Permit No. 26648 Date Nov. 21 1973
12. Water from Limestone (Formation) 13. County Cook
at depth 63 to 280 ft. Sec. 30
14. Screen: Diam. _____ in. Twp. 37N
Length: _____ ft. Slot _____ Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Galv. 15	0	195

SHOW LOCATION IN SECTION PLAT
Lot 6, Ramsgate Subd., SE (Permit)

16. Size Hole below casing: 5 in.
17. Static level 63 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Submersible pump set at 126'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	195
Rock Formation	195	280

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12/20/73

COUNTY No. 24636

COOK 30-37N-11E

STATE OFFICE BUILDING, SPRINGFIELD,
CAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-1-74

10. Property owner Rauen Inc. Well No. _____
Address Palos Park Ill. Lot #5
Driller B & K Well Drilling License No. 102-29
11. Permit No. 26647 Date Nov. 21 1973
12. Water from Limestone (Formation) 13. County Cook
at depth 65 to 280 ft. Sec. 30
14. Screen: Diam. _____ in. Twp. 37N
Length: _____ ft. Slot _____ Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Black 15 lbs	0	205

SHOW LOCATION IN SECTION PLAT
Lot 5 Ramsgate Subd. in SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 65 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Submersible pump set at 126'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	205
Rock Formation	205	280

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 4-2-74

COUNTY No. 24680

COOK 30-37N-11E

TOWN

TOWNSHIP Lemont R. 11E

COMPANY Eggert NO. T. 37N SEC. 30

FARM Evan. Lutheran Cemetery

DATE DRILLED

AUTHORITY

COLLECTOR C. G. Johnson ELEVATION 748 TM

SW SE SE SE

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	SW Lemont				
	Drift	150		150	
	Limestone	25		175	

NO ENVELOPE

COUNTY Cook

SAMPLE SET NO.

30-37N-11E

STATE OFFICE BUILDING, SPRINGFIELD,
AL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-20-72

10. Property owner Elmer Shadden Well No. 1
Address 324 New Ave. Lemont
Driller Pakpart Well & Pump License No. 180
11. Permit No. 20854 Date 11-8-72
12. Water from Limestone Formation 13. County Cook
at depth 40 to 145 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT
SW SW NW
(Permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0'	40'

16. Size Hole below casing: 5 in.
17. Static level 70 ft. below casing top which is +1 ft. above ground level. Pumping level 70 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2'	2'
Clay & Gravel	17'	19'
Limestone	126'	145'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Ayers DATE 11-25-72

4259

COOK

30-37N-11E

R5-8410-01

IL-0303-07

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review: 10/8/85 Date Review Completed: 10/10/85

To: Dave Cusack (CO22A)

From: Arlene Pratl 303

Subject: L. J. Schultz Containers ROS-8410-01 (All)

Sample Description: Case # 4274 low soil metals

Project Data Status: complete

FIT Data Review Findings:

See attached CRL review.

Additional Comments:

Book No. 4
Page No. 218

35X:3M

recycled paper

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

Resubmitted

DATA TRACKING - FORM I

CRL Data Set No. SF2308 ERRIS No. _____

SMO Case No. 4274 Site Name: J.J. Schutz Containers

Name of Laboratory: RMAL Data User: Jit

No. of Samples: 5 Date Samples Received: 6/6/85

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: 5 Number of samples received: 5
7. Checked by: Nidia Feliciano Date: 10/4/85
8. Received by Contract Project Management Section: _____ Date: _____
9. Review Started: _____ Reviewer Signature: _____
10. Total time spent on review: _____ Date review completed: _____
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: Nidia Feliciano Date: 10/4/85

TO DATA USERS:

Please fill in the blanks and return this form to: RECEIVED OCT 8 1985

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Arlene Grace Date: 10/10/85
14. Q.A. review received by: Arlene Grace Date: 10/10/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

Transmitted 6/12/85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6.7.85

SUBJECT: Review of Region V CLP Data
Received for Review on 6/6/85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Gary Thatcher

TO: Data User: Fit

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

SITE NAME: J.J. Schutz Containers SMO Case No. 4274

EPA Data Set No. SF 2308 No. of Samples: 5 D.U./Activity Numbers 1905 / C48500

CRL No. 85FC06354 - 85FC06358

SMO Traffic No. MED046 - MED050

CLP Laboratory: RMAL Hrs. Required for Review: 1 hr.

Following are our findings.

This review covers 5 low concentration soil samples.
The spike recoveries were biased low for the following elements: Sb (61%), Pb (38%) and Se (52%).
The spike recovery was biased high for Mn (178%).

RECEIVED OCT 8 1985

Joan F. Fels 6/7/85

( ) Data are acceptable for use.
(X) 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
Don Trees, CLP/Sample Management Office

EPA FORM 1710-6 (REV 3-78)

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 6/4/85

SF7308

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 4274
QC Report No. 5839

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MED046			
MED047			
MED048			
MED049			
MED050			
[MED999]			

RECEIVED
JUN 06 1985
U.S. EPA, CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Comments: 5 LOW SOILS TASK 1&2 ONLY
SERIAL DILUTION OF SAMPLE MED050
IDENTIFIED AS [MED999]

ICP Interelement and background corrections applied? Yes X No ___.
If yes, corrections applied before X or after ___ generation of raw data.

Footnotes:

RECEIVED OCT 8 1985

NR - not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the method used with P (for ICP/Flame AA) or F (for furnace).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of Interference. Explanatory note included on cover page.
s - Indicates value determined by Method of Standard Addition.
R - Indicates spike sample recovery is not within control limits.
* - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is Less than 0.995
CV - Indicates Cold Vapor
MS - Indicates Manual Spectrophotometric

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

DATA TRACKING - FORM I

CRL Data Set No. SF 2308 ERRIS No. _____

SMO Case No. 4274 Site Name: J.J. Schultz Container

Name of Laboratory: Incotech Data User: Fit

No. of Samples: 5 Date Samples Received: 6/6/85

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: 5 Number of samples received: 5
7. Checked by: Nidia Feliciano Date: 6/6/85
8. Reteived by Contract Project Management Section: JR Date: 6.6.85
9. Review Started: 6/7/85 Reviewer Signature: Jan F. Rebo
10. Total time spent on review: 1 hr. Date review completed: 1 hr.
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: _____ Date: _____

TO DATA USERS:

Please fill in the blanks and return this form to:

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Charles Elly, DPO, Region V, 5SCRL

13. Data received by: Arlene Grace Date: 10/10/85
14. Q.A. review received by: Arlene Grace Date: 10/10/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

85FC06554

EPA Sample No.
MED046

Date ~~4/26/85~~ 6/4/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	3590	P *	13.	MAGNESIUM	57700	P
2.	ANTIMONY	29U	P R	14.	MANGANESE	451	P R
3.	ARSENIC	[6.2]	F	15.	MERCURY	84	CV
4.	BARIUM	306	P	16.	NICKEL	29	P
5.	BERYLLIUM	[0.57]	P	17.	POTASSIUM	[990]	P
6.	CADMIUM	3.6	P	18.	SELENIUM	3.2 w	F
7.	CALCIUM	108000	P	19.	SILVER	2.5U	P
8.	CHROMIUM	217	P	20.	SODIUM	[1040]	P
9.	COBALT	[11]	P	21.	THALLIUM	2.5U	F
10.	COPPER	62	P	22.	TIN	881	P R
11.	IRON	25500	P	23.	VANDIUM	[17]	P
12.	LEAD	824	P R	24.	ZINC	416	P

Cyanide NR

Percent Solids (%) 79

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

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Lab Manager JM

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

85FC06555
EPA Sample No.
MED047

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	6190	P *	13.	MAGNESIUM	39500	P
2.	ANTIMONY	27U	P R	14.	MANGANESE	469	P R
3.	ARSENIC	8.2	F	15.	MERCURY	1.0	CV
4.	BARIUM	[83]	P	16.	NICKEL	26	P
5.	BERYLLIUM	[0.72]	P	17.	POTASSIUM	[1450]	P
6.	CADMIUM	2.9U	P	18.	SELENIUM	2.9W	F
7.	CALCIUM	93500	P	19.	SILVER	2.4U	P
8.	CHROMIUM	79	P	20.	SODIUM	[1290]	P
9.	COBALT	121	P	21.	THALLIUM	2.4U	F
10.	COPPER	313	P	22.	TIN	21U	P R
11.	IRON	19900	P	23.	VANDIUM	[22]	P
12.	LEAD	140	P R	24.	ZINC	210	P

Cyanide NR Percent Solids (%) 85

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

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Lab Manager JN

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

85FC06556
EPA Sample No.
MED048

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	27900	P *	13.	MAGNESIUM	59500	P
2.	ANTIMONY	28U	P R	14.	MANGANESE	434	P R
3.	ARSENIC	35	F	15.	MERCURY	0.24	CV
4.	BARIUM	245	P	16.	NICKEL	47	P
5.	BERYLLIUM	[0.42]	P	17.	POTASSIUM	[885]	P
6.	CADMIUM	9.9	P	18.	SELENIUM	8N 12U	F
7.	CALCIUM	115000	P	19.	SILVER	8.8	P
8.	CHROMIUM	116	P	20.	SODIUM	[734]	P
9.	COBALT	[6.5]	P	21.	THALLIUM	2.4U	F
10.	COPPER	66000	P	22.	TIN	295	P R
11.	IRON	25500	P	23.	VANDIUM	[14]	P
12.	LEAD	7880	P R	24.	ZINC	4920	P

Cyanide NR

Percent Solids (%) 82

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

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Lab Manager Jm

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

85FC06557
EPA Sample No.
MED049

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	10900	P *	13.	MAGNESIUM	18000	P
2.	ANTIMONY	28U	P R	14.	MANGANESE	635	P R
3.	ARSENIC	17	F	15.	MERCURY	0.06U	CV
4.	BARIUM	357	P	16.	NICKEL	133	P
5.	BERYLLIUM	[0.86]	P	17.	POTASSIUM	[1910]	P
6.	CADMIUM	3U	P	18.	SELENIUM	3.0W	F
7.	CALCIUM	32100	P	19.	SILVER	2.4U	P
8.	CHROMIUM	199	P	20.	SODIUM	[576]	P
9.	COBALT	[14]	P	21.	THALLIUM	2.4U	F
10.	COPPER	814	P	22.	TIN	22U	P R
11.	IRON	30100	P	23.	VANDIUM	[25]	P
12.	LEAD	1760	P R	24.	ZINC	783	P

Cyanide NR

Percent Solids (%) 83

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

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Lab Manager JM

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

85FC06558
EPA Sample No.
MED050

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	6820	P *	13.	MAGNESIUM	26100	P
2.	ANTIMONY	27U	P R	14.	MANGANESE	835	P R
3.	ARSENIC	18	F	15.	MERCURY	0.06U	CV
4.	BARIUM	[75]	P	16.	NICKEL	26	P
5.	BERYLLIUM	[0.85]	P	17.	POTASSIUM	[1670]	P
6.	CADMIUM	3U	P	18.	SELENIUM	3.0w	F
7.	CALCIUM	48000	P	19.	SILVER	2.4U	P
8.	CHROMIUM	19	P	20.	SODIUM	[1150]	P
9.	COBALT	[12]	P	21.	THALLIUM	2.4U	F
10.	COPPER	58	P	22.	TIN	21U	P R
11.	IRON	20700	P	23.	VANDIUM	[22]	P
12.	LEAD	106	P R	24.	ZINC	130	P

Cyanide NR

Percent Solids (%) 84

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

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Lab Manager JM

DATASET # _____ DATA REVIEW SHEET

LAB: RMAL LAB QC # 5839

SITE J.J. Schultz Container CONC: L 5 M — H — MATRIX: W — S 5 EPA SAMPLE FOR SPIKE MED046 FOR DUP MED046

DATE: 6/7/85 REVIEWED BY Jon F. Pals

Metals:	CALIBRATION INITIAL	CALIBRATION CONT	CALIBRATION CONT	CALIBRATION CONT	BLANKS CONT.	BLANKS PREP. 1	BLANKS PREP. 2	ICP INTERCK INIT	ICP INTERCK FINAL	SPIKE 1	SPIKE 2	RPD DUPLICATE 1	RPD DUPLICATE 2	LCS SOLID	LCS LIQ		
1. Aluminum												27%					
2. Antimony										61%							
3. Arsenic																	
4. Barium																	
5. Beryllium																	
6. Cadmium																	
7. Calcium																	
8. Chromium																	
9. Cobalt																	
10. Copper																	
11. Iron																	
12. Lead										38%							
13. Magnesium																	
14. Manganese										178%							
15. Mercury																	
16. Nickel																	
17. Potassium																	
18. Selenium										52%							
19. Silver																	
20. Sodium																	
21. Thallium																	
22. Vanadium																	
23. Zinc																	
24. Cyanide																	
Other:																	

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Case: 4274 SF2308

Contractor: RMAL

DATA PACKAGE COMPLETENESS AUDIT

I. Cover Page

✓ The cover page must include general comments, Statement of Work Number, QC Report #, EPA cross reference numbers, footnotes used in the data package, and the statement on ICP corrections.

II. Inorganic Data Report Sheet - Form I

A completed Form I must be submitted for every sample in that case.

✓ Proper matrix and concentration level indicated.

✓ % solids reported for solid samples.

✓ Analytical method code for each parameter. "P" for ICP/flame AA or "F" for furnace.

✓ Any dilutions affecting the IDL explained in the comment section.

✓ For positive values less than the contract required detection limit, the value is put in brackets. [ ].

✓ For not detected, the detection limit is reported, followed by a "U".

✓ Lab manager's signature.

III. QA/QC Data

The following forms must be submitted. A check for completeness and and compliance follows in this audit.

✓ Initial and Continuing Calibration Verification - Form II.

✓ Blank data - Form III

✓ ICP Interference Check Sample - Form IV

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✓ Spike Sample Recovery - Form V

✓ Duplicate Data - Form VI

✓ Instrument Detection Limit and Laboratory Control Sample - Form VII.

___ Standard Addition Results - Form VIII

IV. Raw Data

A legible photocopy of raw data consisting of the sequential measurement readout record, such as an instrument tape or printout, clearly labeled with sufficient information to identify both the sample identity and the final result must be submitted for each of the following.

✓ calibration standards, with prep date.

✓ calibration and preparation blanks

✓ initial and continuing calibration

___ interference check samples, initial and continuing.

✓ duplicates

✓ spikes - indicating standard solutions used, final spike concentrations and volumes involved.

✓ samples - including all weights, dilutions and volumes used to obtain the reported value.

✓ instrument adjustments or corrections, if any.

✓ raw furnace data for:

- initial single spike data
- single spike % recovery, if used
- full method of standard addition, if performed.
- method of standard addition correlation coefficient, slope and intercept of linear fit.

V. Sample Traffic Report

✓ Copy of SMO Sample Traffic Report with lab receipt information and original contractor signature.

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Form III

Q.C. Report No. 5839

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 4274

DATE 6/4/85 UNITS ug/L

Matrix SOIL

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM	23U	23U				23U	
2. ANTIMONY	46U	46U				46U	
3. ARSENIC	4w	4w	4w			4w	
4. BARIUM	12U	12U				12U	
5. BERYLLIUM	0.5U	0.5U				0.5U	
6. CADMIUM	5U	5U				5U	
7. CALCIUM	290U	290U				290U	
8. CHROMIUM	4U	4U				4U	
9. COBALT	7U	7U				7U	
10. COPPER	4U	[24]				4U	
11. IRON	11U	11U				[50]	
12. LEAD	RW ~~2U~~ 23w	RW ~~2U~~ 23w				RW ~~2U~~ 23w	
13. MAGNESIUM	330U	330U				330U	
14. MANGANESE	3U	3U				[3.5]	
15. MERCURY	0.1w	0.1w				0.1w	
16. NICKEL	5U	5U				5U	
17. POTASSIUM	470U	470U				470U	
18. SELENIUM	2w	2w	2w			2w	
19. SILVER	[4.4]	4U				4U	
20. SODIUM	880U	880U				880U	
21. THALLIUM	4w	4w	4w			4w	
22. TIN	36U	36U				36U	
23. VANDIUM	4U	4U				4U	
24. ZINC	2U	2U				[3.3]	
Other:							
Cyanide							

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Form V

Q.C. Report No. 5839

SPIKE SAMPLE RECOVERY

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 6/4/85

CASE NO. 4274
EPA Sample No. MED046
Lab Sample ID No. -
Units mg/kg

MATRIX SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R	
Metals:						
1. ALUMINUM	75-125	2760	2840	NR		
2. ANTIMONY	75-125	152	23U	250	61	R
3. ARSENIC	75-125	24	[4.9]	20	96	
4. BARIUM	75-125	1180	242	1000	94	
5. BERYLLIUM	75-125	27	[0.45]	25	106	
6. CADMIUM	75-125	29	2.8	25	105	
7. CALCIUM	75-125	79600	85100	NR		
8. CHROMIUM	75-125	289	172	100	117	
9. COBALT	75-125	254	[8.6]	250	98	
10. COPPER	75-125	168	49	125	95	
11. IRON	75-125	19600	20100	NR		
12. LEAD	75-125	746	651	250	38	R
13. MAGNESIUM	75-125	42700	45600	NR		
14. MANGANESE	75-125	802	356	250	178	R
15. MERCURY	75-125	129	66	~~2.5~~ 68.2	92	
16. NICKEL	75-125	259	23	250	94	
17. POTASSIUM	75-125	[695]	[782]	NR		
18. SELENIUM	75-125	2.6	2.5w	5	52	R
19. SILVER	75-125	25	2U	25	100	
20. SODIUM	75-125	[490]	[822]	NR		
21. THALLIUM	75-125	22	2U	25	88	
22. TIN	75-125	694	696	250	-0.8	R
23. VANDIUM	75-125	262	[13]	250	100	
24. ZINC	75-125	531	329	250	81	
Other:						
Cyanide	75-125					

* %R = [(SSR - SR)/SA] x 100

"R"- out of control

Comments:

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Form VI

Q.C. Report No. 5839

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 6/4/85

CASE NO. 4274
EPA Sample No. MED046
Lab Sample ID No. -
Units mg/kg

Matrix SOIL

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]	
Metals:				-	
1. ALUMINUM		2840	3740	27	*
2. ANTIMONY		23U	23U	NC	
3. ARSENIC		[4.9]	6	NC	
4. BARIUM		242	250	3.3	
5. BERYLLIUM		[0.45]	[0.66]	NC	
6. CADMIUM		2.8	2.5U	NC	
7. CALCIUM		85100	77100	9.9	
8. CHROMIUM		172	145	17	
9. COBALT		[8.6]	[11]	NC	
10. COPPER		49	52	5.9	
11. IRON		20100	18700	7.2	
12. LEAD		651	599	8.3	
13. MAGNESIUM		45600	41300	9.9	
14. MANGANESE		356	340	4.6	
15. MERCURY		66	65	1.5	
16. NICKEL		23	21	9.1	
17. POTASSIUM		[782]	[997]	NC	
18. SELENIUM		2.5w	2.5w	NC	
19. SILVER		2U	2U	NC	
20. SODIUM		[822]	[1210]	NC	
21. THALLIUM		2U	2U	NC	
22. TIN		696	715	2.7	
23. VANDIUM		[13]	[17]	NC	
24. ZINC		329	315	4.3	
Other:					
Cyanide					

* Out of Control

[1] To be added at a later date.

NC - Non calculable RPD due to value(s) less than CRDL

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[2] RPD = [|S-D|/((S+D)/2)] x 100

Form VII

Q.C. Report No. 5839
INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME ROCKY MOUNTAIN ANALYTICAL
DATE 6/4/85

CASE NO 4274
UNITS ug/L

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. ALUMINUM	200	23		500	440	88
2. ANTIMONY	60	46		500	514	103
3. ARSENIC	10		4	~~42~~ 43	42	98
4. BARIUM	200	12		500	487	97
5. BERYLLIUM	5	0.5		100	101	101
6. CADMIUM	5	5		100	98	98
7. CALCIUM	5000	290		100000	109000	109
8. CHROMIUM	10	4		100	100	100
9. COBALT	50	7		100	94	94
10. COPPER	25	4		100	109	109
11. IRON	100	11		500	490	98
12. LEAD	5	23	2	500	452	90
13. MAGNESIUM	5000	330		100000	102000	102
14. MANGANESE	15	3		100	95	95
15. MERCURY	0.2		.10CV	1.00	0.98	98
16. NICKEL	40	5		100	104	104
17. POTASSIUM	5000	470		100000	99800	100
18. SELENIUM	5		2	~~42~~ 58	56	97
19. SILVER	10	4		100	91	91
20. SODIUM	5000	880		100000	99400	99
21. THALLIUM	10		4	~~42~~ 43	42	98
22. TIN	40	36		500	491	98
23. VANDIUM	50	4		100	99	99
24. ZINC	20	2		100	95	95
Other:						
Cyanide	10		10MS			

CV - Cold Vapor
MS - Manual Spectrophotometer

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R5-8410-01

IL-0303-08

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

Date Received for Review: 9/24/85 Date Review Completed: 9/25/85

To: Dave Cunnock / COZZA 303

From: Arlene Pratl

Subject: J.J. Schultz Containers R05-8410-01 (All)

Sample Description: Case # 4274 5 low soil organics

Project Data Status: still awaiting metals

FIT Data Review Findings:

See attached CRL review.

ABN data is unacceptable
VOA data has estimated values

Additional Comments:

Book No. 4
Page No. 218

35X:3M

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

RECEIVED SEP 24 1985

DATE: 9/13/85

SUBJECT: Review of Region V CLP Data
Received for Review on 7-1-85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory
Francis Thomas

TO: Data User: FIT

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

SITE NAME: J. J. Schultz Containers SMO Case No. 4274

EPA Data Set No. SF 2308 No. of Samples: 5 D.U./Activity Numbers 19051 C48500

CRL No. 85FC06S54 to 85FC06S58

SMO Traffic No. ED075 to ED079

CLP Laboratory: Encotech Hrs. Required for Review: 3

Following are our findings.

1. Surrogates, matrix spikes and pesticide QC were acceptable.
2. VOA analysis times were ~~to~~ exceeded by 3 days and ABN extraction times were exceeded by 2 days, therefore, all VOA and ~~ab~~ ABN data are flagged as estimated.
3. All SPCC and CCC criteria were met for VOA's and ABN's.
4. The ABN method blank contained gross contamination of several unknown compounds. These unknowns were also in the samples and were used to determine whether the samples were medium level. This problem renders all ABN data unusable. Re-extraction and reanalysis are ~~recommended~~ recommended.
5. Pesticide data is acceptable

Patrick J. Chuilla
8-27-85

(X) Data are acceptable for use. Pest./PCB's
(X) Data are acceptable for use with qualifications noted above. VOA's
( ) Data are preliminary - pending verification by Contractor Laboratory.
(X) Data are unacceptable. ABN's

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

EPA FORM 1320-6 (REV 3-76)

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

RECEIVED SEP 24 1985

DATA TRACKING - FORM I

CRL Data Set No. SF 2308 ERRIS No. _____

SMO Case No. 4274 Site Name: J.J. Schultz Containers

Name of Laboratory: Encotech Data User: FIT

No. of Samples: 5 Date Samples Received: 7-1-85

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: 5 Number of samples received: 5
7. Checked by: Sylvia Griffin Date: 7-1-85
8. Received by Contract Project Management Section: J. Thomas Date: 7/1/85
9. Review Started: 8-21-85 Reviewer Signature: Patrick J. Chuilla
10. Total time spent on review: 3 Hrs Date review completed: 8-27-85
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: _____ Date: _____

TO DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Eugene Grace Date: 9/25/85
14. Q.A. review received by: Eugene Grace Date: 9/25/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

ENVIRONMENTAL
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TECHNOLOGY
CORPORATION

3985 RESEARCH PARK DRIVE
ANN ARBOR, MICHIGAN 48104
313/761-1389

RECEIVED SEP 2 4 1985

SF 2308

June 28, 1985

JUL 1 1985

Sample Management Office
P.O. Box 818
300 North Lee
Suite 200
Alexandria, VA 22313

RE: Case 4274

Enclosed please find a copy of the sample data summary package and deliverables package for Case 4274. Copies of the deliverables package are also being sent to Region V and EMSL - Las Vegas.

Very truly yours,

ENVIRONMENTAL CONTROL TECHNOLOGY CORPORATION

Dale Scherger

Dale A. Scherger
Vice President

DAS/crn

75100

Enclosure

cc: Region V
EMSL - Las Vegas

CASE 4274 RECEIVED SEP 2 4 1985

DELIVERABLES INDEX

I. Case Narrative

The Case narrative must contain: Case number, Contract number, summary of any QC, sample, shipment and analytical problems, and documentation of all internal decision tree processes used. Outline problems encountered and final solutions. Be as specific and detailed as necessary.

II. QC Summary

A. Surrogate Percent Recovery Summary (Form II)

B. Matrix Spike/Matrix Spike Duplicate Summary (Form III)

C. Reagent Blank Summary (Form IV)
(If more than a single form is necessary, it must be arranged in chronological order.)

D. GC/MS Tuning and Calibration Standard (Form V)

1. DFTPP in chronological order; by instrument.

2. BFB in chronological order; by instrument.

III. Sample Data Package

A. Sample data in increasing SMO Number order:

1. HSL Results - Organic Analysis Data Sheet (Form I)

2. GC/MS tentative ID (Form I, Part B) - Must be included even if no compounds are found; if so, indicate on form: "no volatile compounds found" and/or "no semi-volatile compounds found."

3. Raw data - in order: VOA, BNA, Pesticide

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report or data system printout (GC)

c. HSL spectra with lab generated standard (Dual Display)

- data systems incapable of dual display shall provide spectra in order:

RECEIVED SEP 2 4 1985

- raw HSL compound spectra
- enhanced or background subtracted spectra
- laboratory generated HSL standard

d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

IV. Standards Data Package

A. Current list of laboratory calculated instrument detection limits for all HSL compounds.

B. Initial Calibration Data (Form VI) - in order: VOA, BNA; by instrument if more than one instrument used.

1. When more than one initial calibration is performed, the data must be put in chronological order. All initial calibration data must be included even for a specific Case.

C. Continuing Calibration (Form VII) - in order: VOA, BNA; by instrument if more than one instrument used.

1. When more than one Continuing Calibration is performed, forms must be in chronological order.

D. Pesticide forms in the following order:

1. Form VIII - Pesticide Evaluation Standards Summary

2. Form IX - Pesticide/PCB Standards Summary

3. Form X - Pesticide/PCB Identification (only required for positive results)

E. VOA standard(s) chromatograms and data system printouts (or legible facsimile). Spectra are not required.

F. BNA standard(s) chromatograms and data system printouts (or legible facsimile). Spectra are not required.

G. All pesticide evaluation standard(s) (A, B, and C) chromatograms and data system printouts in chronological order.

H. All pesticide Individual Standard Mix (A or B) chromatograms and data system printouts.

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I. Pesticide Quantitation standard(s) chromatograms and data system printouts.

V. Raw QC Data Package

A. DFTPP

1. Bar graph spectrum

2. Mass listing

B. BFB

1. Bar graph spectrum

2. Mass listing

C. Blank Data

1. Tabulated results (Form I)

2. GC/MS tentative ID sheet (Form I, Part B) even if none found

3. Raw Data - in order: VOA, BNA, Pesticide

a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

b. Chromatogram(s) and data system printout(s) (GC)

c. HSL spectra with lab generated standard (dual display)

- data systems which are incapable of dual display shall provide spectra in order:

  - raw HSL compound spectra

  - enhanced or background subtracted spectra

  - laboratory generated HSL standard spectra

d. GC/MS library search spectra for Tentatively Identified Compounds (TIC)

e. Quantitation/Calculation of Tentative ID concentrations

D. Matrix Spike Data

1. Tabulated results (Form I) of non-spiked compounds

2. Raw Data - in order: VOA, BNA, Pesticide

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a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

- spectra not required

b. Chromatogram(s) and data system printout(s) (GC)

E. Matrix Spike Duplicate Data

1. Tabulated results (Form I) of non-spiked compounds

2. Raw Data - in order: VOA, BNA, Pesticide

a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

- spectra not required

b. Chromatogram(s) and data system printout(s) (GC)

Trissic Reports

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SEP 2 4 1985

Section I
Narrative
Case 4274

Case 4274 was received on May 02, 1985 for organics analyses under contract 68-01-6764. This case consisted of 5 soil samples. A matrix spike and duplicate were run with this case bringing the total number of samples to seven. A method blank was also run with all analysis.

The volatiles analyses were run using low level protocol. These analyses showed that several samples contained toluene and one sample, ED077, also contained trichloroethene. All surrogate recoveries were within QC limits. Matrix spike and duplicate results were good with only one value out of window. The method blank contained background levels of acetone and methylene chloride.

The BNA analyses were performed using medium level protocol due to the high level of hydrocarbon materials in the sample. Initial extraction showed that the samples could not be concentrated to proper volumes and FID screening showed high levels. The BNA results showed no priority pollutants above contract detection limits. However, pyrene and fluoranthene were identified as present in sample ED076. All surrogate recoveries were within window. Matrix spike and spike duplicate all gave very good results. The method blank contained background method artifact materials from the extraction.

The pesticides were run using low level protocol. However, several samples required varying dilution factors in order to properly analyze the samples. Pesticide/PCB analysis showed the presence of DDT in samples ED076 and ED079. PCB-aroclor 1254 was found in ED077 and DDE was detected in ED078 and ED079. All results were confiemed by second column confirmation. There was a QC problem with recovery of DBC. Recoveries were highly variable ranging from 0 to 326%. High recoveries were due to an interfering peak in sample ED076 and the matrix spikes (ED076-MS, ED076MSD). Low recoveries may be due to the alumina column clean-up step, although heavy chlorinated DDT and PCB were recovered as shown in the samples. The matrix spike results were fair for most materials. However, DDT recoveries were variable because the DDT in the sample (60 ug/kg) was four times higher than the spike level. Dieldrin could not be separated from a large peak eluting prior to and over the dieldrin retention time. The method blank contained no pesticide or PCB materials.

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One special note for the pesticide results should be mentioned. We have implemented a Nelson computer system to help produce more clearly reportable data. This system, however, labells the time on the chromatogram and tables based on the time the data was stored not when the run was performed. Therefore, we have needed to write the actual analyses time on the sheets. These times are from a Spectra Physics system still connected in parallel to the GC. The old system lists the actual time of sample injection. Therefore, these times have been transcribed on forms and tables in order to maintain consistency within the case.

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SECTION II

QC Summary

Case 4274

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. 4274 Contract Laboratory ENCOTEC Contract No. 68-01-6764

Low X Medium _____

	VOLATILE				SEMI-VOLATILE							PESTICIDE
EPA SAMPLE NO.	TOLUENE-D8 (80-100)	BFB (80-100)	1,2 DICHLOROETHANE-D4 (80-100)	NITROBENZENE-D5 (20-140)	2-FLUOROBIPHENYL (20-140)	TERPHENYL-D14 (20-140)			PHENOL-D5 (20-140)	2-FLUOROPHENOL (20-140)	2,4,6 TRIBROMOPHENOL (10-140)	DIBUTYLCHLORENDATE ** (20-150)
METH. BLK	106	90	97	41	50	45			38	35	37	0 *
ED075	126	79	109	38	43	40			33	33	35	5 *
ED076	115	88	99	40	49	44			37	36	38	326 *
ED077	124	80	115	39	51	46			33	32	33	0 *
ED078	115	86	104	36	49	39			33	33	35	31
ED079	133	75	105	43	48	48			38	39	35	5 *
ED076MS	115	86	109	—	—	—			—	—	—	143 *
ED076MSD	115	88	109	—	—	—			—	—	—	156 *
ED077MS	—	—	—	39	45	42			35	33	37	—
ED077MSD	—	—	—	43	50	43			34	33	36	—

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 24 ; outside of QC limits

Semi-Volatiles: 0 out of 48 ; outside of QC limits

Pesticides: 7 out of 8 ; outside of QC limits

Comments: DBC RECOVERIES VARIABLE BUT ADVISORY ONLY - SEE NARRATIVE DISCUSSION

RECEIVED 9 24 1985

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 4274 Contractor ENCOTEC Contract No. 68-01-6764

Low Level X (VOA) Medium Level X (BNA)

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg)	SAMPLE RESULT (µg/kg)	CONC. MS (µg/kg)	% REC	CONC. MSD (µg/kg)	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. ED076	1,1-Dicholorethene	0.25	0	0.21	84	0.18	72	15	22	59-172
	Trichloroethene	0.25	0	0.18	72	0.15	60*	18	24	62-137
	Chlorobenzene	0.25	0	0.23	92	0.19	76	19	21	60-133
	Toluene	0.25	0.02	0.28	104	0.23	84	21	21	59-139
	Benzene	0.25	0	0.26	104	0.23	92	12	21	66-142
B/N SMO SAMPLE NO. ED077	1,2,4-Trichlorobenzene	100	0	58	58	61	61	5	23	38-107
	Acenaphthene	100	0	60	60	63	63	5	19	31-137
	2,4 Dinitrotoluene	100	0	61	61	49	49	22	47	28-89
	Di-n-Butylphthalate	100	2	69	67	72	70	4	47	29-135
	Pyrene	100	0	67	67	71	71	6	36	35-142
	N-Nitrosodi-n-Propylamine	100	0	66	66	64	64	3	38	41-126
	1,4-Dichlorobenzene	100	0	61	61	60	60	2	27	28-104
ACID SMO SAMPLE NO. ED077	Pentachlorophenol	100	0	31	31	27	27	14	47	17-109
	Phenol	100	0	35	35	34	34	3	35	26-90
	2-Chlorophenol	100	0	38	38	38	38	0	50	25-102
	4-Chloro-3-Methylphenol	100	0	34	34	31	31	9	33	26-103
	4-Nitrophenol	100	0	21	21	15	15	33	50	11-114
PEST SMO SAMPLE NO. ED076	Lindane	0.2	0	0.29	145*	0.25	125	15	50	46-127
	Heptachlor	0.2	0	0.24	120	0.23	115	4	31	35-130
	Aldrin	0.2	0	0.23	115	0.22	110	4	43	34-132
	Dieldrin	0.5	0	—	—	—	—	—	38	31-134
	Endrin	0.5	0	0.72	144*	0.39	78	59*	45	42-139
	4,4'-DDT	0.5	0.18	2.8	200*	1.84	8*	22	50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:
VOAs 0 out of 5 ; outside QC limits
B/N 0 out of 7 ; outside QC limits
ACID 0 out of 5 ; outside QC limits
PEST 1 out of 5 ; outside QC limits

RECOVERY:
VOAs 1 out of 10 ; outside QC limits
B/N 0 out of 14 ; outside QC limits
ACID 0 out of 10 ; outside QC limits
PEST 4 out of 10 ; outside QC limits

Comments:
DIELDRIN RECOVERY NOT DETERMINED DUE Interfering Peak
DDT RECOVERY Affected by High conc IN SAMPLE

RECEIVED 2 4 1985

REAGENT BLANK SUMMARY

Case No. 4274 Contractor ENCOTEC Contract No. 68-01-6764

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (NBL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
VOABLK515	5/15/85	VOA	SOIL	L	001	75-09-2	METHYLENE CHLORIDE	8	ug/kg	5
VOABLK515	5/15/85	VOA	SOIL	L	001	67-64-1	ACETONE	15	ug/kg	10
VOABLK515	5/15/85	VOA	SOIL	L	001	NA	UNKNOWN (SCAN 63)	30	ug/kg	NA
VOABLK515	5/15/85	VOA	SOIL	L	001	NA	UNKNOWN (SCAN 388)	10	ug/kg	NA
VOABLK515	5/15/85	VOA	SOIL	L	001	NA	UNKNOWN (SCAN 528)	10	ug/kg	NA
4274SBLK	5/23/85	BNA	SOIL	MED	001	NA	UNKNOWN (SCAN 378)	30,000	ug/kg	NA
4274SBLK	5/23/85	BNA	SOIL	MED	001	NA	UNKNOWN (SCAN 1535)	10,000	ug/kg	NA
4274SBLK	5/23/85	BNA	SOIL	MED	001	NA	UNKNOWN (SCAN 1614)	20,000	ug/kg	NA
4274SBLK	5/23/85	BNA	SOIL	MED	001	NA	UNKNOWN (SCAN 1685)	10,000	ug/kg	NA
4274SBLK	5/23/85	BNA	SOIL	MED	001	NA	UNKNOWN (SCAN 1754)	20,000	ug/kg	NA
4274SBLK	5/23/85	BNA	SOIL	MED	001	NA	UNKNOWN (SCAN 1820)	500,000	ug/kg	NA
Method BLANK	5/30/85	Pest	SOIL	LOW	L-3700	NA	NONE FOUND	—	—	—

Comments:

RECEIVED SEP 24 1985

Decafluorotriphenylphosphine (DFTPP)

Case No. 4274 Contractor ENCOTEC Contract No. 68-01-6764

Instrument ID 001 Date 5/23/85 Time 14:48

Lab ID DFTPP523 Data Release Authorized By: Michael J Jaeger

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.2
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	42.4
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	42.6
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	5.8
275	10.0 - 30.0% of mass 198	21.4
365	greater than 1.00% of mass 198	1.28
441	present, but less than mass 443	9.66
442	greater than 40.0% of mass 198	51.2
443	17.0 - 23.0% of mass 442	8.65 (17.0)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

RECEIVED JUN 24 1985

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Calibration standards	160BNA523	5/23/85	15:31
	120BNA523	"	16:16
	80BNA523	"	17:07
	48BNA523	"	17:52
	20BNA523	"	18:40
Medium soil method blk.	4274SBLK	"	19:29
ED079	ED079B	"	20:14
ED078	ED078B	"	21:00
ED077	ED077B	"	21:45
Med. soil matrix spike	ED077MSB	"	22:37
Med. soil matrix spike dup.	ED077MSDB	"	23:21
ED076	ED076B	5/24/85	0:45
ED075	ED075B	"	1:32

Bromofluorobenzene (BFB)

RECEIVED SEP 24 1985

Case No. 4274 Contractor ENCOTEC Contract No. 68-01-6764

Instrument ID 001 Date 5/15/85 Time 11:04

Lab ID BFB515 Data Release Authorized By: Michael J. Jang

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	28.4
75	30.0 - 60.0% of the base peak	42.3
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	6.3
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	94.6
175	5.0 - 9.0% of mass 174	6.8 (7.2)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	92.1 (97.4)[1]
177	5.0 - 9.0% of mass 176	5.7 (6.2)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Calibration Standards	200VOA515	5/15/85	12:44
	150VOA515	"	13:25
	100VOA515	"	14:08
	50VOA515	"	14:57
	20VOA515	"	15:40
low soil method blk	VOABLK515	"	16:20
ED075	ED075V	"	17:03
ED076	ED076V	"	17:42
ED077	ED077V	"	18:25
ED078	ED078V	"	19:07
ED079	ED079V	"	19:48
low soil matrix spike	ED076MSV	"	20:28
low soil mat. spk. dup.	ED076MSDV	"	21:08

4/84

FORM V

Pesticide Evaluation Standards Summary

RECEIVED SEP 24 1985

Case No. 4274 Laboratory ENCOTEC

Contract No. 68-01-6764 Column Packed 85-01-10

Date of Analysis 6/4-6/5/85 Instrument ID L3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	Pest 815	Pest 816	Pest 817	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	2885333	3135133	3387520	6.5
ENDRIN	1679067	1820627	1860600	4.4
4,4'-DDT	1655867	1854227	1765330	4.6
DIBUTYL CHLORENDATE	1732600	2085520	2178653	9.6

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	0	0	0	
4,4'-DDT	0	0	0	
LABORATORY ID	Pest 816	Pest 103	Pst 1014	
TIME OF ANALYSIS	9:14	0:58	9:49	

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
EVAL MIX A	Pest 815	8:25	—	1248	Pest 97	19:11	—
EVAL MIX B	Pest 816	9:14	0.02	ED079	Pest 911	22:24	—
EVAL MIX C	Pest 817	10:02	0	ED076 MSD	Pest 622	23:21	0.4
Pest MIX A	Pest 819	11:39	0.06	ED076 MS	Pest 620	0:09	0.7
Pest MIX A	Pest 820	12:27	0.00	EVAL MIX B	Pst 103	0:58	—
Pest MIX B	Pest 821	13:15	0.06	ED076	Pst 104	1:46	0.3
Toxaphene	Pest 91	14:21	—	ED078	Pst 105	2:34	2.3
Chlordane	Pest 92	15:09	—	Pest MIX A	Pst 109	5:47	0.15
1016+1260	Pest 93	15:58	—	Method BLANK	Pst 1012	8:12	—
1221	Pest 94	16:46	—	EVAL MIX B	Pst 1014	9:49	0.06
1232	Pest 95	17:34	—	Pest MIX B	Pst 1015	10:37	0.06
1242	Pest 96	18:22	—				
1254	Pest 98	19:59	—				
ED077	Pest 99	20:47	—				
ED075	Pest 910	21:36	—				

* ≤2% PACKED, ≤0.3% CAPILLARY

Pesticide Evaluation Standards Summary

Case No. 4274 11321 Laboratory Enviro-Tech RECEIVED OCT 2 4 1985

Contract No. 68-01-6764 Column Capillary

Date of Analysis 6/7/85 Instrument ID L-3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	0.01	0.05	0.10	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	800	773	613*	11
ENDRIN	467	427	560	11
4,4'-DDT	533	533	660	10
DIBUTYL CHLORENDATE	333	307	393	10

* 0.025 ppm Pest + Mi.

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	-0-	9.9	6.66	10
4,4'-DDT	-0-	-0-	2.9	-0-
LABORATORY ID	0.01	0.05	0.10	0.05 ppm
TIME OF ANALYSIS	9:33	10:14	10:54	22.54

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix		9:33	—	Method Blank	Method BLK	19:38	-
Eval Mix		10:14	0.14	ED058	ED058	[illegible]	—
Eval Mix		10:54	0.14	ED059	ED059	[illegible]	—
Pest Mix B		11:34	0.14	ED057	ED057	[illegible]	—
Pest Mix A		12:15	—	ED183	ED183	22.19	—
Pest Mix A		12:55	0.14	MB	Meth BLK	[illegible]	—
Pest Mix B		13:35	0.11	[illegible]	ED075	[illegible]	—
toxaphene		[illegible]	—	[illegible]	ED079	[illegible]	—
Chlordane		14:56	—	[illegible]		22:57	0.07
1016 + 1260		15:36	—	[illegible]	ED078	1:40	—
1221		16:16	—	[illegible]	ED077	[illegible]	—
[illegible]		[illegible]	—	[illegible]		[illegible]	0.00
1242		[illegible]	—	[illegible]	ED076	[illegible]	—
1248		18:17	—	Col Spike A+B+C		9:21-5:42	—
1254		18:57	—	Eval Mix		6:22	0.17
				[illegible] Mix A		7:03	0.174184

* ≤2% PACKED, ≤0.3% CAPILLARY

Case No. 4274, 4921 Laboratory Enviro-tec
Contract No. 68-01-6764 GC Column packed GC Instrument ID L-3700

	DATE OF ANALYSIS 6/4/85 TIME OF ANALYSIS 11:39, 13:15 LABORATORY ID 0.01 ppm Pest Mix A+B (0.025 ppm)				DATE OF ANALYSIS 6/5/85 TIME OF ANALYSIS 5:42 + 10:37 LABORATORY ID 0.025 ppm Pest Mix A+B			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha-BHC	6.99	6.91	3507733	Quant	6.99	3394107	Quant	1.6
beta-BHC	11.27	11.21-11.30	1645327		11.21	1063653		0.7
delta-BHC	12.87	12.83-12.89	2936640		12.85	2830053		0.99
gamma-BHC	9.33	9.29-9.35	2933000		9.31	2976000		1.0
Heptachlor	11.72	11.70-11.73	2843067		11.71	2929067		1.5
Aldrin	13.15	13.09-13.13	3061200		13.12	3034933		0.4
Heptachlor Epoxide	17.59	17.55-17.61	2550933		17.57	2656827		2.0
Endosulfan I	19.43	19.37-19.46	2560733		19.40	2578053		1.4
Dieldrin	21.00	20.94-21.03	2557733		20.97	2663040		2.0
4,4'-DDE	20.68	20.66-20.69	2505800		20.67	2432535		1.5
Endrin	22.64	22.56-22.66	1813933		22.61	1771893		1.2
Endosulfan II	24.43	24.37-24.46	2315200		24.40	2315947		1.4
4,4'-DDD	24.20	24.14-24.23	2629093		24.17	2524747		2.0
Endrin Aldehyde	27.29	27.25-27.31	1438227		27.27	1424153		0.29
Endosulfan Sulfate	29.71	29.67-29.73	3510940		29.69	3088800		6.4
4,4'-DDT	26.13	26.11-26.14	1457267		26.12	1683747		7.2
Methoxychlor	35.39	35.23-35.41	429427		35.31	431467		0.35
Endrin Ketone	35.29	35.21-35.33	2043533		35.25	2021120		0.53
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242								
Aroclor - 1248								
Aroclor - 1254	19.05	19.05	81465		19.05	82696		1.5
Aroclor - 1260								

* SEE EXHIBIT B, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)

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4/84

Case No. 4274, 4321 Laboratory Encotec

Contract No. 68-01-6764 GC Column Capillary GC Instrument ID L-3700

	DATE OF ANALYSIS 6/7 TIME OF ANALYSIS 12:55 AND 13:35 LABORATORY ID Pest mix A ; Pest mix B				DATE OF ANALYSIS 6/8 TIME OF ANALYSIS 7:01 ; 7:03 LABORATORY ID Pest mix B ; Pest mix A			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	10.35	10.35	693	Conf.	10.35	773	Conf	11
beta-BHC	11.61	11.59-11.62	240		11.60	213		12
delta-BHC	12.95	12.93-12.96	693		12.94	587		17
gamma-BHC	11.78	11.74-11.80	827		11.76	747		10
Heptachlor	14.79	14.69-14.84	800		14.74	667		18
Aldrin	16.18	16.16-16.19	747		16.17	667		11
Heptachlor Epoxide	17.90	17.80-17.95	640		17.85	587		8.6
Endosulfan I	19.32	19.20-19.38	613		19.26	533		14
Dieldrin	20.36	20.24-20.42	747		20.30	533		33
4,4'-DDE	20.49	20.45-20.51	427		20.47	427		0
Endrin	21.20	21.06-21.27	453		21.13	373		19
Endosulfan II	21.60	21.48-21.66	613		21.54	453		30
4,4'-DDD	22.13	22.07-22.16	400		22.10	347		14
Endrin Aldehyde	22.38	22.32-22.41	293		22.35	267		13
Endosulfan Sulfate	23.29	23.21-23.33	213		23.25	213		0
4,4'-DDT	23.56	23.44-23.62	506		23.50	427		17
Methoxychlor	26.42	26.28-26.49	187		26.35	133		34
Endrin Ketone	25.27	25.18-25.32	347		25.23	347		0
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242								
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

* SEE EXHIBIT B, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)

RECEIVED SEP 24 1985

Pesticide/PCB Identification

Case No. 4274 Laboratory ENCOTEC

Contract No. 68-01-6764

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
ED076	85-01-10	DDT	26.11	26.11-26.14	31183	23.55	23.44-23.62	N
ED077	85-01-10	1254	19.05	19.05	31183	20.73	20.73	N
ED078	85-01-10	DDE	20.76	20.66-20.79	31183	20.44	20.40-20.51	N
ED079	85-01-10	DDE	20.68	20.66-20.79	31183	20.41	20.40-20.51	N
ED079	85-01-10	DDT	26.12	26.11-26.14	31183	23.50	23.50	N

4/84

FORM X

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RECEIVED SEP 2 4 1985

Case: 4274

Contractor: ENCOTEC

TENTATIVELY IDENTIFIED COMPOUNDS MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Environmental Protection Agency, CLP Sample Management Office,
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Sample Number
ED075

85FC06S54

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC

Case No: 4274

Lab Sample ID No: ED075V

QC Report No:

Sample Matrix: SOIL

Contract No: 68-01-6764

Data Release Authorized By: Michael J Jaeger

Date Sample Received: 5/2/85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/15/85

Date Analyzed: 5/15/85

Conc/Dil Factor: 1 pH

Percent Moisture: ~~79.0~~ dd 21

Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 4/10/85	~~5u~~ 52ØB
67-64-1	Acetone MJ 4/10/85	~~10u~~ 22B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

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

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

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.

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

Sample Number
ED075

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: MJ 6/10/85 ~~5/24/85~~ 5/23/85

Conc/Dil Factor: 2000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate	20,000u
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
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RECEIVED SEP 2 4 1985

Sample Number
ED075

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:40

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	6.0u
319-85-7	Beta-BHC	20 u
319-86-8	Delta-BHC	7.0u
58-89-9	Gamma-BHC (Lindane)	7.0u
76-44-8	Heptachlor	8.0u
309-00-2	Aldrin	5.0u
1024-57-3	Heptachlor Epoxide	9.0u
959-98-8	Endosulfan I	8.0u
60-57-1	Dieldrin	9.0u
72-55-9	4, 4'-DDE	8.0u
72-20-8	Endrin	9.0u
33213-65-9	Endosulfan II	6.0u
72-54-8	4, 4'-DDD	8.0u
7421-93-4	Endrin Aldehyde	10u
1031-07-8	Endosulfan Sulfate	50u
50-29-3	4, 4'-DDT	20u
72-43-5	Methoxychlor	40u
53494-70-5	Endrin Ketone	90u
57-74-9	Chlordane	50u
8001-35-2	Toxaphene	200u
12674-11-2	Aroclor-1016	20u
11104-28-2	Aroclor-1221	600u
11141-16-5	Aroclor-1232	300u
53469-21-9	Aroclor-1242	200u
12672-29-6	Aroclor-1248	100u
11097-69-1	Aroclor-1254	60u
11096-82-5	Aroclor-1260	40u

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 30.0 V_t 400,000 V_i 1.5

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Sample Number
ED075

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. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	NO BNAs FOUND	BNA	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
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27.				
28.				
29.				
30.				

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

Sample Number
ED076

85FC06555

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED076V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~83.2~~ 16.8
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	~~5u~~ 300B
67-64-1	Acetone MJ 6/10/85	~~10u~~ 10B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 5
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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

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.

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Sample Number
ED076

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: MJ 6/10/85 ~~5/24/85~~ 5/23/85

Conc/Dil Factor: 2000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate MJ 6/10/85	~~20,000u~~ 4000
206-44-0	Fluoranthene MJ 6/10/85	~~20,000u~~ 4000
92-87-5	Benzidine	160,000u
129-00-0	Pyrene MJ 6/10/85	~~20,000u~~ 4000
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

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

Sample Number
E0076

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:20

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	3.0u
319-85-7	Beta-BHC	8.0u
319-86-8	Delta-BHC	3.0u
58-89-9	Gamma-BHC (Lindane)	3.0u
76-44-8	Heptachlor	4.0u
309-00-2	Aldrin	2.0u
1024-57-3	Heptachlor Epoxide	4.0u
959-98-8	Endosulfan I	4.0u
60-57-1	Dieldrin	4.0u
72-55-9	4, 4'-DDE	4.0u
72-20-8	Endrin	4.0u
33213-65-9	Endosulfan II	4.0u
72-54-8	4, 4'-DDD	4.0u
7421-93-4	Endrin Aldehyde	6.0u
1031-07-8	Endosulfan Sulfate	30u
50-29-3	4, 4'-DDT	~~69~~ 72
72-43-5	Methoxychlor	20u
53494-70-5	Endrin Ketone	4.0u
57-74-9	Chlordane	30u
8001-35-2	Toxaphene	80u
12674-11-2	Aroclor-1016	100u
11104-28-2	Aroclor-1221	300u
11141-16-5	Aroclor-1232	200u
53469-21-9	Aroclor-1242	80u
12672-29-6	Aroclor-1248	60u
11097-69-1	Aroclor-1254	80u
11096-82-5	Aroclor-1260	40u

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 30.2 V_t 200,000 V_i 1.5

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

Sample Number
ED076

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	NO BNAs FOUND	BNA	NA	NA
3.				
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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED077
85FC06556

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED077V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

MJ 6/10/85

Concentration: Low ~~Medium~~ (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~85.1~~ 14.9
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	5u 35ØB
67-64-1	Acetone MJ 6/10/85	~~10u~~ 15B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene MJ 6/10/85	~~5u~~ 9
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 46
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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

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.

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

Sample Number
ED077

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: 5/23/85

Conc/(Dil) Factor: 2000

CAS Number		ug/l or (ug/Kg) (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate MJ 6/10/85	~~20,000u~~ 4000 J
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	~~20,000u~~ 20,000
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

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

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Sample Number
ED077

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:1000

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	100u
319-85-7	Beta-BHC	300u
319-86-8	Delta-BHC	100u
58-89-9	Gamma-BHC (Lindane)	100u
76-44-8	Heptachlor	200u
309-00-2	Aldrin	70u
1024-57-3	Heptachlor Epoxide	200u
959-98-8	Endosulfan I	200u
60-57-1	Dieldrin	200u
72-55-9	4, 4'-DDE	200u
72-20-8	Endrin	200u
33213-65-9	Endosulfan II	100u
72-54-8	4, 4'-DDD	200u
7421-93-4	Endrin Aldehyde	200u
1031-07-8	Endosulfan Sulfate	1000u
50-29-3	4, 4'-DDT	400u
72-43-5	Methoxychlor	800u
53494-70-5	Endrin Ketone	200u
57-74-9	Chlordane	1000u
8001-35-2	Toxaphene	4000u
12674-11-2	Aroclor-1016	5000u
11104-28-2	Aroclor-1221	8000u
11141-16-5	Aroclor-1232	8000u
53469-21-9	Aroclor-1242	4000u
12672-29-6	Aroclor-1248	3000u
11097-69-1	Aroclor-1254	~~53000u~~ 68000
11096-82-5	Aroclor-1260	1000u

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 29.9 V_t 10,000,000 V_i 1.5

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

Sample Number
ED Ø77

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. NA	unknown hydrocarbon	VOA	448	7 J
2. NA	NO BNAS FOUND	BNA	NA	NA
3.				
4.				
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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED078

85FC06557

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED078V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: [signature]
Date Sample Received: 5/2/85

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Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~83.2~~ 16.8
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	~~5u~~ 620B
67-64-1	Acetone MJ 6/10/85	~~10u~~ 110B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone MJ 6/10/85	~~10u~~ 29
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 26
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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

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
ED078

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: 5/23/85

Conc/Dil Factor: 20000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	~~20,000u~~ 9000
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	~~20,000u~~ 9000
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate	20,000u
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

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

Sample Number
ED078

Organics Analysis Data Sheet
(Page 3)

RECEIVED SEP 2 4 1985

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:2

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	2.0u
319-85-7	Beta-BHC	2.0u
319-86-8	Delta-BHC	2.0u
58-89-9	Gamma-BHC (Lindane)	2.0u
76-44-8	Heptachlor	2.0u
309-00-2	Aldrin	2.0u
1024-57-3	Heptachlor Epoxide	2.0u
959-98-8	Endosulfan I	2.0u
60-57-1	Dieldrin	4.0u
72-55-9	4, 4'-DDE	~~DD 2~~ 2.5
72-20-8	Endrin	4.0u
33213-65-9	Endosulfan II	4.0u
72-54-8	4, 4'-DDD	4.0u
7421-93-4	Endrin Aldehyde	4.0u
1031-07-8	Endosulfan Sulfate	4.0u
50-29-3	4, 4'-DDT 4.0u → ~~70 DD 33~~	DD
72-43-5	Methoxychlor	20u
53494-70-5	Endrin Ketone	4.0u
57-74-9	Chlordane	20u
8001-35-2	Toxaphene	40u
12674-11-2	Aroclor-1016	20u
11104-28-2	Aroclor-1221	30u
11141-16-5	Aroclor-1232	20u
53469-21-9	Aroclor-1242	20u
12672-29-6	Aroclor-1248	20u
11097-69-1	Aroclor-1254	40u
11096-82-5	Aroclor-1260	40u

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 30.0 V_t 20,000 V_i 1.5

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

Sample Number
ED078

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 24 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	UNKNOWN	BNA	918	16000
3.				
4.				
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27.				
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29.				
30.				

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

Sample Number
ED079

85T-C06 558

RECEIVED SEP 2 4 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED079V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~80-20~~ 19.8
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	~~5u~~ 550B
67-64-1	Acetone MJ 6/10/85	~~10u~~ 10B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 5
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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

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

RECEIVED JUN 2 4 1985

Sample Number
ED079

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: 5/23/85

Conc/Dil Factor: 20000

CAS Number		ug/l or (ug/Kg) (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate 675 ug/Kg	~~20,000u~~ 2000 5
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

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

Sample Number
ED079

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:4

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	2.0u
319-85-7	Beta-BHC	2.0u
319-86-8	Delta-BHC	2.0u
58-89-9	Gamma-BHC (Lindane)	2.0u
76-44-8	Heptachlor	2.0u
309-00-2	Aldrin	2.0u
1024-57-3	Heptachlor Epoxide	2.0u
959-98-8	Endosulfan I	2.0u
60-57-1	Dieldrin	4.0u
72-55-9	4, 4'-DDE	17.4
72-20-8	Endrin	4.0u
33213-65-9	Endosulfan II	4.0u
72-54-8	4, 4'-DDD	4.0u
7421-93-4	Endrin Aldehyde	4.0u
1031-07-8	Endosulfan Sulfate	5.0u
50-29-3	4, 4'-DDT	21.2
72-43-5	Methoxychlor	20u
53494-70-5	Endrin Ketone	4.0u
57-74-9	Chlordane	20u
8001-35-2	Toxaphene	40u
12674-11-2	Aroclor-1016	20u
11104-28-2	Aroclor-1221	60u
11141-16-5	Aroclor-1232	30u
53469-21-9	Aroclor-1242	20u
12672-29-6	Aroclor-1248	20u
11097-69-1	Aroclor-1254	40u
11096-82-5	Aroclor-1260	40u

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 30.0 V_t 40,000 V_i 1.5

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

RECEIVED SEP 2 4 1985

Sample Number
ED079

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. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	NO BNAS FOUND	BNA	NA	NA
3.				
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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO
INDUSTRIAL WASTE ANALYSIS

COMPANY J. J. Schultz Container Co

ADDRESS Remont, Ill

SAMPLING POINT Sta. # 1B – Discharge Hole

COMPOSITE ___ SANITARY SEWER ___ EFFLUENT DISCHARGE X

GRAB X PVT. TRT. PLANT ___ WATERWAYS RUN ___

1980 DATE	TIME	SAMPLER	LAB. NO.	pH	FOG	COD	BOD	SOLIDS SERIES TOTAL	TOTAL SUSPENDED	VOLATILE SUSPENDED	DISSOLVED SOLIDS	NITROGEN TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE AS CN-	FREE CYANIDE AS CN-	PHENOL (µg/l)	TOC	NON-POLAR F.O.G. (%)
6/12	1045	Tomaras Guderatis	8098+	6.6	51.3%	3.7%	4440	3.3%	3.0%	1.2%	0.3%		55.0	—	1.12	—	—	3358	

This form not to be copied or distributed.

Results are in mg/l., except for pH and where indicated

Metals Attached ___

Analyses as Requested ___

Approved ___

Supervising Chemist

RD-401 Mar 80

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO
INDUSTRIAL WASTE ANALYSIS

COMPANY J. J. Schultz Container Co SAMPLING POINT Sta. # 1B - Discharge Hole

COMPOSITE ___ SANITARY SEWER ___ EFFLUENT DISCHARGE X

ADDRESS Rensont, Ill GRAB X PVT. TRT. PLANT ___ WATERWAYS RUN ___

1980 DATE	TIME	SAMPLER	LAB. NO.	pH	FOG	COD	BOD	SOLIDS SERIES: TOTAL	TOTAL SUSPENDED	VOLATILE SUSPENDED	DISSOLVED SOLIDS	NITROGEN: TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE AS CN⁻	FREE CYANIDE AS CN⁻	PHENOL (µg/l)	TOC	NON-POLAR F.O.G. (%)
6/12	1045	Tomaras Goodrich	8098+	6.6	51.3%	3.7%	4440	3.3%	3.0%	1.2%	0.3%		55.0	—	1.12	—	—	3358	

This form not to be copied or distributed.

Results are in mg/l., except for pH and where indicated

Metals Attached ___

Analyses as Requested ___

Approved ___

Supervising Chemist

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO
RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT
INDUSTRIAL WASTE

SAMPLE COLLECTION DATA:

SOURCE T.J. SCHULTZ CONTAINER CO.

LOCATION LEMONT, ILL.

PERIOD 6-12, 80

TYPE GRAB; 10:45 A.M., SUSTICH

WATERWAYS

STA. 1B - DISCHARGE HOLE

ANALYSIS DATA:

RESULTS EXPRESSED IN mg./l.
(milligrams per liter)

I.S. = insufficient sample
N.S. = no sample
N.A. = no analysis
* Reported in µg./l. (Micrograms per liter)

LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa valent Cr	Iron Total	Iron Sol.	Ni	Pb	Sc	As	Ag	Mn	Ba	Hg*
8098	1045 6-12-80 SUSTICH	2168	34.7	0.04	1.56	34.6		97		296	2.50	0	0	0	0.93	0.8	5.9
8098	[illegible]	2168	34.3		1.55	34.7		97		296	2.52						3.9

This form not to be copied or distributed

DATE: _____

DATE: JUN 19 1980

ANALYST: _____

SUPERVISING ANALYST: _____

REFERENCE #3
SITE NAME JJ Schultz Container
SITE ID ILD096778547

DOLOMITE
IRRIGATION WELLS
ASSUMED TO BE IN USE
IN NORTHERN ILLINOIS

County	Total	Farm	Sod Farm	Nursery	Golf Course	Cemetery	Misc.
BNE							
BUR							
CAR	1	1					
COK	100		1	6	78	10	5
DEK	3				3		
DUP	69		1	11	49		8
GRY							
HRY	1	1					
JDV							
KNE	13			5	6		2
KNK	147	135	7	2	2		1
KEN	1				1		
LKE	26			6	19		1
LAS							
LEE	2				2		
MCH	6				6		
OGL							
RIS	6	2			4		
STE	3					3	
WTS	2	1			1		
WIL	27	1	5	2	19		
WIN	2			1	1		
Totals:	409	141	14	33	191	13	17

REFERENCE #4
SITE NAME JJ Schultz Container
SITE ID ILD096778547

This data for

Site Name: Lemont/J.J. Schultz

County: Cook Region: Northern

Prepared by: B

LPCFC010

Transaction Code	A
Site code number	0 3 1 1 6 2 0 5
Region	N
Date (mo., day, year)	0 7 2 8 8 0

Owner Data

1. File Heading	LEMONT/_J_J_SCH
2. Owner's Name Roskope, Carol A.	J_J_SCHULTZ_____
3. Owner's street address or P. O. Box	7_W_NEW_AVENUE_

LPCFC011

4. Owner's community	LEMONT_____
5. Owner's state	IL
6. Owner's zip code	6 0 4 3 9

LPCFC020

7. File Heading	LEMONT/_J_J_SCH
8. Operator's name	J_J_SCHULTZ_____
9. Operator's street address or P. O. Box	7_W_NEW_AVENUE_

LPCFC021

10. Operator's community	LEMONT_____
11. Operator's state	IL
12. Operator's zip code	6 0 4 3 9

LPCFC030

13. Operation status (code 1) M (26)

14. Legal status (code 2) T (27)

15. Permit number (required if P in item 14) (28) – – – (32) (33) (34)

16. Site operation-1:public, 2:private 2 (35)

17. Site ownership-1:public, 2:private 2 (36)

18. General physical character of site (code 3) 5 (37)

19. Year operation started 6 0 (38)

20. Anticipated remaining life (years) 0 1 0 (40) (42)

21. Total area (acres) 0 0 0 3 (43) (46)

22. Areas to be used for disposal(acres) 0 0 0 1 (47) (50)

23. Loads per day - public vehicles 0 0 0 (51) (53)

24. Loads per day - private vehicles 0 0 1 (54) (56)

25. Quantity of refuse last year 0 0 0 0 0 0 0 1 (60) (67)

26. Zoning at site (code 4) 3 (70)

27. Land use surrounding site (code 4) 3 (71)

28. Plans for site when legally closed (code 5) 6 (72)

29. Public control of site after closed (N:no Y:yes) N (73)

30. Estimated annual cost 0 0 0 5 0 0 0 (74) (80)

31a. Legal and location descriptions

22-19-481-014 ROSKOPF, CAROL A.

LPCFC050

N W (Quarter)/half of N E (Quarter)/half of Section 3 0 Towns
(26) (27) (28) (29) (30) (31)

Range 1 1 E Principal Meridian 3 with Metes and Bounds N
(35) (37) (38) (39)

	Degrees	Minutes
Latitude North	4 1 (40) (41)	4 0 (42) (43)
Longitude West	8 8 (46) (47)	0 5 (48) (49)

Transaction Code A 9

Region N 19

Site Code Number 0311 11

Date (mo., day, yr.) 02 20

Items 32-35, Types of Refuse

Enter X in first space if accepted
Enter P in second space if permitted

32. General Solid Waste LPCFC040 8 — — 26
33. Construction, Demolition Waste — — 28
34. Dewatered Sludge (20% solids) — — 30
35. Other X — 32

Items 36-44, Special Wastes

Require "Supplemental Permits"
Enter X in first space if accepted
Enter P in second space

36. Hazardous Liquids — — 34
37. Special Liquids X — 36
38. Liquid Sludge — — 38
39. Hazardous Solids — — 40
40. Animal Waste — — 42
41. Pataological Waste — — 44
42. Incinerator Ash — — 46
43. Explosives — — 48
44. Radioactive Waste — — 50

Items 45-47, Monitoring Devices

45. Gas Monitoring (Y:Yes, N:No) N 52
46. Ground Water Monitoring (Y: Yes, N:No) N 53
47. Number of Monitor Wells 00 54

Items 48-53, Special Operati

Enter X in first space if ac
Enter P in second space if p

48. Open Burning LPCFC041 8
49. Air Curtain Destructor
50. Incinerator
51. Salvaging
52. Composting
53. Other Recycling
54. Variance (N:No, Y:Yes)
55. PCB Order Number — — 34
56. Date PCB Order No. Expires — — 45
57. Type of Fire Protection (code 6)
58. Times Outside Fire Cont Equipment Needed Last Y
59. Number of Employees at
60. Number of Hours Operate Daily
61. Number of Days Operated Per Week

Equipment Usually Operating

62. Cranes
63. Scrapers
64. Tractors
65. Trucks
66. Other

L P C F C O 4 2

67. Type of Facility (code 7) 26 2

68. Date Operation Closed (Mo., Day, Yr.) _ _ _ _ _ _ 27 32

Items 69 - 73, Basic Criteria Value

69.	Depth of Aquifer	(2)	0 (33)
70.	Soils Permeability	(2)	0 (34)
71.	Distance to Surface Water	(2)	2 (35)
72.	Distance to Water Supply	(3)	0 (36)
73.	Flooding	(3)	0 (37)

Items 74 - 76, Special Considerations

74.	Population Density	(1-3)	2 (38)
75.	Visual Effects	(1-3)	1 (39)
76.	Hazardous Waste Volume	(2-6)	2 (40)

Items 77 - 79, Special Considerations on Closed but not Covered Sites

77. Site Size Range (code 8) 41

78. Percent Completed Covered 42

79. Time Site has been Closed (Mo.) 44

Code 7

Sanitary Landfill

Open Dump

Transfer Station

Random Dump

Code 8

0 - 5 Acres

6 - 15 Acres

16 - Up Acres

Analytical Results of

Data Set EEIB 299

Lemont, Illinois Monitoring Wells

August 4, 1980

Organic Laboratory Section

U.S. Environmental Protection Agency

Region V

Central Regional Laboratory

536 South Clark Street

Chicago, Illinois 60605

RECEIVED

AUG 7 1980

USEPA, EEI BRANCH
536 South Clark Street
Chicago, Illinois 60605

EEIB 299 - Lemont, Illinois Monitoring Wells

Objective:

The following nine (9) samples were collected from the Monitoring Wells at Lemont, Illinois by the Environmental Emergency Investigation Branch (EEIB) on June 26, 1980. These samples were analyzed quantitatively by computerized GC/MS and GC/FID for any organic compound present.

Sample Number	Description
80-VL05S01	8 West New Avenue - 9:00am
80-VL05S02	108 West New Ave. - 11:00am
80-VL05D02	108 West New Ave. - 11:00am
80-VL05S04	34 West New Ave. - 12:00noon
80-VL05R04	34 West New Ave. - 12:00noon
80-VL05S06	191 Nat. Park Rd. - 1:00pm
80-VL05D06	191 Nat. Park Rd. - 1:00pm
80-VL05S08	136 West New Ave. - 9:30am
80-VL05S09	140 West New Ave. - 10:00am

Results:

No detectable amounts of organics ("extractable" or "purgeable") were detected in any of the samples. The detection limits were approximately 20ppb for "extractables" and 0.20ppb for "purgeables".

Methodology:

The water samples were analyzed by the liquid-liquid extraction method. They were extracted three times at neutral pH with methylene chloride. The organic fraction was then dried over anhydrous sodium sulfate which was previously washed with methylene chloride. The extracts were transferred to Kuderna-Danish flasks equipped with 10ml receivers and snyder columns and then concentrated on a steam bath for GC/MS analysis.

Volatile organics were analyzed by the purge and trap method. This method entails purging of an aliquot (5ml) of each sample with nitrogen gas and subsequently trapping the purged organics on a short stainless steel column (approx. 5" x 1/4") packed with tenax GC 80/100. The tenax is then desorbed by heating and the free volatile organics are routed into the gas chromatograph

INSTRUMENTAL CONDITIONS

Extractables:

Instrument: Hewlett Packard 5985A GC/MS/DS
Column: 25m x 0.2mm sp-2100 Fused Silica Capillary
Mode of Operation: Splitless Injection
Septum Vent: 6 ml/min.
Column Head Pressure: 10 psi
Linear Velocity: 25 cm/sec.
Carrier Gas: Helium

Mass Range: 05-500amu
Electron Voltage: 70ev
Electron Multiplier Voltage: 2200v
Threshold: 10
Temperature Program:
T_1: 40°C
T_2: 250°C
Time at T_1: 1 min.
Time at T_2: 10 min.
Rate: 40-150°C by 15°C/min.
100-250°C by 6°C/min.

Volatiles:

Instrument: Varian 1400 gas chromatograph
Detector: Flame Ionization
Temperature: 170°C
Air Flow: 300 ml/min.
Hydrogen Flow: 40 ml/min.
Column: 6' x 1/8" glass column packed with 0.2% carbowax 1500 on carbo-pack-c 80/100
Collection Column: Tenax GC (60/80): 6" x 1/8" (ss)
Sampling Flow: 45 ml/min.
Desorption Time: 6 min.
Desorption Temp.: 200°C
Injection Time: 4 min.
Temperature Program: Initial Temperature: 40°C
Final Temperature: 150°C
Programming Rate: 8°C/min.
Carrier Gas Flow: 30 ml/min. (nitrogen gas)
Injector Temperature: 160°C

Quailty Control:

A laboratory reagent blank, field blank and several duplicate samples, were analyzed along with the samples to check the method performance. A control standard containing a mixture of nonvolatile organics was also analyzed along with these samples. All of the quality control samples gave acceptable results.

Participants:

K.C. Hsia, Chemist
A. Kontrovitz, Chemist
S. Kim, Author

), STATE OFFICE BUILDING, SPRINGFIELD,
CAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 8-21-74

10. Property owner Edmund Chmielewski Well No. _____
Address 148 New Avenue, Lemont, Illinois
Driller DuPage Pump, Inc. License No. 92-147
11. Permit No. 25853 Date October 5, 1973
12. Water from Rock (Limestone) 13. County Cook
Formation
at depth ____ to ____ ft. Sec. 30
14. Screen: Diam. ____ in. Twp. 37N
Length: ____ ft. Slot ____ Rge. 11E
Elev. ____

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	42'

SHOW LOCATION IN SECTION PLAT
Lot 2, County Clerk's Subd., NW NE (Permit)

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 20 ft. when pumping at 10 gpm for 2 hours. Submersible pump set at 60'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	42'	42'
Limestone	58'	100'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 8-21-74

(91133—20M—4-54)

3

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
No record		0	95
Broken lime		95	125
Brown clean lime		125	170
Gray lime		170	238
Blue shale		238	241 TD

Water at 140'
Water level 110'

Casing: 128' of 12" I.D.

Water at 140'
Yield: 550' Galls. per minute.

REFERENCE #2
SITE NAME J.J. Schultz Contam
SITE ID LLD0967778547

COMPANY J. P. Miller Drlg. Co.
FARM Village of Lemont NO. 2
DATE DRILLED December 1954 COUNTY NO.
AUTHORITY J. P. Miller Drlg. Co.

(65600—60M—10-57)

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Clay	20	0	20
Clay & gravel - mud	74	20	94
Broken limestone	34	94	128
Limestone	140	128	268
Limestone & shale	5	268	273
Shale	124	273	397
Limestone	17	397	414
Shale	84	414	498
Limestone	348	498	846
Sandstone	247	846	1093
Shale & limestone	471	1093	1464
Sandy limestone	40	1464	1504
Sandstone	67	1504	1571
Limestone	5	1571	1576
Sandstone	72	1576	1648
Shale & limestone	75	1648	1723
420			

Hole shot with 8 qts. solidified nitro glycerine, at 1646, 1642, 1625, 1608, 1600, 1580, 1560, 1540

Hole size: 20" 0-118½' 16" 118½-420' 15½" 420-1152; 12" 1152-1723'

Casing Record 20" 0-118½',16" 0-420'(cemented) 12" 1087-1152'

SS # 45591

COMPANY Watling Well Works

FARM Village of Lemont

NO. #4

COUNTY NO.

LOG OF WATER WELL

Property owner Chas. Kingsley Well No.

Drilled by Simpson Year 19

Formations passed through	Thickness	Depth of Bottom
[illegible] Shale [illegible] 10151	118	118
[illegible] Rock	42	160
[illegible] 715		
[illegible] 160		
[illegible] Rock 555		
[illegible]		
[illegible]		
[illegible]		
White lime white lime		

(Continue on back if necessary)

Finished in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

(Show location in Section Plat)

Township name Lemont Elev. 715 Sec. 29

Description of location _____ Twp. 37N

Joliet Rge. 11E

Signed C. G. [illegible] County Cook

SHEET 2 T. 37 N. R. 11 E S. 29

COMPANY W. L. Thorne Co. NO.

FARM Lemont City Well NO.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Blue shale, hard, caving at 320-325 feet	90		365	
	Shale, blue, gray & red	5		370	
	Shale and lime rock	20		390	
	Shale, caving	25		415	
	Shale, brown, caving	50		465	
	Blue and brown shale, caving	5		470	
	Oily brown shale, lime rock, caving	5		475	
	Mohawkian series				
	Galena-Platteville formations				
	Trenton lime & shale	5		480	
	Trenton lime, hard	343		823	
	Glenwood formation				
	Sand and shale	52		875	
	Chazyan series				
	St. Peter formation				
	Sandrock, hard	260		1135	
	Sandrock, hard, white, coarser	5		1140	
	Sandrock, hard	95		1235	

gP

Map No. 20 (3)

R. 11 E

COMPANY W. L. Thorne Co. NO.

FARM Lemont City Well NO. T 37 N Sec 29

DATE DRILLED 1925

AUTHORITY W. L. Thorne Co.

COLLECTOR Correlations by LEW

ELEVATION

1800' S, 2500' E of NW cor. Sec. 29

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Pleistocene system				
	Wisconsin glacial drift				
	Red clay	10		10	
	Red clay & boulders	10		20	
	Blue clay	10		30	
	Gravel	5		35	
	Blue clay	5		40	
	Brownish clay, gravel	5		45	
	Brownish clay	5		50	
	Blue clay	5		55	
	Gravel	5		60	
	Blue clay	5		65	
	Blue clay, gravel	5		70	
	Blue clay, hardpan	5		75	
	Gravel, hardpan	15		90	
	Boulders, hardpan	10		100	
	Limestone, hardpan	15		115	
	Silurian system				
	Niagaran & Alexandrian series				
	Lime rock, hard	5		120	
	Lime rock, hard, flint	20		140	
	Lime rock, hard	100		240	
	Ordovician system				
	Cincinnatian series				
	Maquoketa formation				
	Red shale, soft	5		245	
	Blue shale, soft	15		260	
	Blue shale, harder	15		275	

STATE OFFICE BUILDING, SPRINGFIELD,
L/WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 2-17-73

10. Property owner D. Lazar Well No. _____
Address 127th Street, Lemont, Illinois
Driller DuPage Pump, Inc. License No. 92-147
11. Permit No. 21613 Date 1/26/73
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____
Sec. 29
Twp. 37N
Rge. 11E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	115'

SHOW LOCATION IN SECTION PLAT

Lot 10 Lemont Highlands S/2 SE SW (Permit)

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is ____ ft. above ground level. Pumping level 125 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	115'	115'
Limestone	60'	175'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Omer Yeoman DATE 2/20/73

16
IC

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-456			
Silty clayey topsoil, trace roots, dark gray			1.0
Silty clay, trace roots & sand, brn. & slighty gray, very stiff			3.5
Silty clay, trace to some sand, trace gravel, brn & gray, irr. seams of light gray silt (5-13'), vert. seams of red brn silt (20-22') hard to very hard			23.0
Silty clay, trace sand & gravel, gray stiff to very stiff, (cobb. 25-45') (Bould. 52.5-53.5')			55.0
Clayey silt, gray, with irr. seams of lt. gray silt, stiff to very stiff, wet			61.0
Silty clay, trace to some sand & gravel, gray, stiff to hard			85.0
Boulders			95.0
Silty, very fine sand, trace to some gravel, trace clay, gray-brn, ext. dense			100.0
Dolomite, lt. to med. gray, fract. (100-110.9') slighty vuggy			113.0
Dolomite, lt. to med. gray, dense, occas. chert nodules & thin seams of gray-grn shale, cherty (132-137'), slighty fractured (144-149')			185.0
Dolomite, lt. - med. gray, slight. vuggy, occ. thin seams of gray-grn shale			231.3

Soils report with 12 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE Received from Warrenville 2/9/76

COMPANY Soil Testing Services
FARM *Lemont Inter. Sewer #43 NO. B-456
DATE DRILLED January 3, 1974 COUNTY NO. 25306
AUTHORITY Company

REQUESTED AND MAIL ORIGINAL TO STATE
NSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
IE P[illegible] LOCAT[illegible]

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Village of Lemont Well No. _____
Address Hunter Rd. Lemont, IL
Driller R. H. Hohling License No. 102-223
11. Permit No. 75752 Date June 19, 1978
12. Water from _____ (Formation) 13. County Cook
at depth ____ to ____ ft. Sec. 29
14. Screen: Diam. ____ in. Twp. 37N
Length: ____ ft. Slot _____ Rge. 11E
1170'S & 120' W of NE of above Elev. _____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
20	Black steel	+1	116'
16	Black steel		1150'
	cemented in		

SHOW LOCATION IN SECTION PLAT
1170' NL 120' EL
NE (permit)

16. Size Hole below casing: _____ in. not tested yet.
17. Static level ____ ft. below casing top which is _____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours. Shot record: 1651 - 50' 900 #

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift SS #	116	116
[illegible] 61635	142	258
Shale	135	393
Dolomite with shale	20	413
Shale	75	488
Lime	25	513
Dolomite	320	833
Sand	250	1083
Lime with shale	70	1153
Lime	30	1183
Lime with shale	55	1238
Lime	155	1393
Shale with sand	60	1453

(CONTINUE ON SEPARATE SHEET IF NECESSARY) (cont.)
Hohling Well Works, Inc.
SIGNED R. H. Hohling DATE 8/22/78

UMER HEALTH PROTECTION, 535 WEST
I. DO NOT DETACH GEOLOGICAL/WATER
PROPER W[illegible] LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 9-28-78
10. Property owner Mike Madden Well No. _____
Address 134 N. New Ave., Lemont, Ill.
Driller Kurt Kuehn License No. 92-117
11. Permit No. 79899 Date 9/22/78
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft. Sec. 29
14. Screen: Diam. ____ in. Twp. 37N
Length: ____ ft. Slot _____ Rge. 11E
Elev. _____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 14.98	0	85

SHOW LOCATION IN SECTION PLAT
[illegible] 7 Lemont High lands S.d. S/2 SE SW (permit)

16. Size Hole below casing: 5 in.
17. Static level 110 ft. below casing top which is _____ ft. above ground level. Pumping level 110 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 140'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	85	85
Limestone	100	185

RECEIVED
OCT 26 1978
REGION 2A I.D.P.H.

(CONTINUE ON SEPARATE SHEET, IF NECESSARY)
SIGNED Kenneth Kuehn DATE Oct. 19, 1978

REQUESTED AND MAIL ORIGINAL TO STATE
AU OF ENVIRONMENTAL HEALTH, 535 WEST
'01. DO NOT DETACH GEOLOGICAL/WATER
E PROPER WELL LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed June 6, 1977

10. Property owner Anthony Macebieius Well No. 1
Address Lot #124 - 1229 118th, Lemont
Driller Charles Fykes License No. 23
11. Permit No. 58568 Date 4-4-77
12. Water from Limestone (Formation) 13. County Cook
at depth 110 to 185 ft. Sec. 21
14. Screen: Diam. _____ in. Twp. 37N
Length: _____ ft. Slot _____ Rge. 11E
Elev. _____

			X

SHOW LOCATION IN SECTION PLAT

SE SE SE

PERMIT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	110'

16. Size Hole below casing: 5 in.
17. Static level 110 ft. below casing top which is +1 ft. above ground level. Pumping level 130 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	30'	30'
Gravel	8'	38'
Clay	~~40'~~ 32	70'
Sand	6'	76'
Gravel	13'	89'
Clay	15'	104'
Sand	6'	110'
Limestone	75'	185'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE March 12, 1979

(28M4—60M—9-55)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bot.
Top soil	3	0	
Yellow clay	10	3	
Blue clay and gravel	30	13	
Yellow clay gravel and sand	20	43	
Yellow sand and clay	19	63	
Finished in lime at 82' to 157'			
Cased with 5" block			
Water lowered to 95'			
S.S. # 30240			

COMPANY Du Page Well Drillers
FARM
DATE DRILLED 1937 NO. 6
AUTHORITY Du Page Well Drillers COUNTY NO. 125
ELEVATION

(8811—50M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Drift	8		
Total Depth			2284
Plugged back			1665

Casing: 10" - 297'
6" - 2284'

In 1923 non-pumping level was 60' below top of casing.
Pumping at 142 gallons per minute.

This well was cleaned out and new pipe installed in 1934 by J.P. Miller.

Casing: 8" - 16'
10" - 354'
10" - 60' caving badly

Size of hole 8" - 51'
6" - 783'

NO ENVELOPE

COMPANY S.D. Geiger
FARM Village of Lemont NO. 2
1891 or 1892 COUNTY NO. 1548

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-463			
Asphalt (1"), Concrete (8")			.9
Misc. fill, clay & sand			3.5
Silty, sandy, gravelly clay, brn & slighty lt. gray, med. to stiff			8.5
Silty, gravelly, clayey sand, brn. & rust brn, & dark gray moist			14.0
Broken rock			20.0
Dolomite, light gray, dense, small void			39.0
Dolomite, lt. gray, slit. vuggy to vuggy, with occas. zones of thin seams of gray-grn shale & chert nodules.			95.0
Dolomite, light gray & slightly red, zone of red shale (95-98.5') & thin seams throughout, slighty vuggy			112.0

Soils report with 12 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE
Received from Warrenville 7/9/76

COMPANY Soil Testing Services
FARM *Lemont Inter. Sewer #4B NO. B-463
DATE DRILLED February 27, 1974 COUNTY NO. 25301
AUTHORITY Company

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B_306			
Cinders & fill			4.0
Weathered rock			7.0
Dolomite, lt. gray, dense			17.0
Dolomite, lt. gray, occas. thin seams of shale, slightly vuggy, highly fractured @ app. 51', vert. frac. 48'-52'			52.0
Dolomite, lt. gray, slightly vuggy, occas. thin shale seam & chert nodules			66.0
Dolomite, lt. to med. gray, slightly vuggy, occas. thin seams of shale, 5" layer of dk. gray-grn shale @ 81', fract. from 85'-86'			86.0

Soils report with 7 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE
Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #3 NO. B-306
DATE DRILLED February 15, 1974 COUNTY NO. 25300

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-107			
Fill			
Broken rock			2.5
Dolomite, lt. gry, occas. thin seams of gry-grn shale & chert nodules dense			6.0
Dolomite, lt. gray, occas. thin seams of gray-grn shale, slightly vuggy vert. fract. (57'-58')			28.0
Shale, dk gry-grn, w/ thin seams of dolomite			82.8
Dolomite, lt. gry, occas. thin seams of gry-grn shale			84.5
			92.6

Soils report with 9 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE
Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #1 NO. B-107
DATE DRILLED February 23, 1974 COUNTY NO. 25299
AUTHORITY Company

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-1			
Miscellaneous Fill			13.0
Rock @ 13'			15.0
Light gray to white, dense crystalline dolomite, with beds			20.5
Light gray to reddish gray, slightly porous crystalline dolomite with thin seams of green claystone			28.5
Brownish gray, porous crystalline dolomite with vertical fractures			41.5
Light gray to white, slightly porous to dense crystalline dolomite fractured			60.0

Soils report with 19 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
FARM *Lemont Inter. Sewer #1 NO. B-1
April 1, 1973 COUNTY NO. 25298

INSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
DE PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 5/10/76

10. Property owner Tiedt Trucking Well No. ____
Address Lemont Rd. & Bluff Rd. Lemont, Ill.
Driller DuPage Pump, Inc. License No. 102-3
11. Permit No. 46841 Date 5-5-76
12. Water from Limestone (Formation) 13. County Cook
at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____
Sec. 20
Twp. 37N
Rge. 11E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	42

SHOW LOCATION IN SECTION PLAT
NE NE NW (permit)

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 4" ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 100'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	0	42
Limestone	58	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Omer Yeoman DATE 5-13-76

REQUESTED AND MAIL A COPY TO THE
ONSUMER HEALTH PROTECTION, 535 WEST
1761. DO NOT DETACH GEOLOGICAL/WATER
DE PROPER LOCAT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed May 16, 1979

10. Property owner Mr. Ron Pitelka Well No. _____
Address Rt. 1 Box 282-RA Frankfort, Il.
Driller Will-DuPage Drillin License No. 102-000445
11. Permit No. 85126 Date 5- 2-79
12. Water from Limestone (Formation) 13. County Cook
at depth _____ to _____ ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 20
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Black Steel 14.98	0	40

SHOW LOCATION IN SECTION PLAT
SW SW SW
(Permit)

16. Size Hole below casing: 5 in.
17. Static level _____ ft. below casing top which is _____ ft. above ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Gravel	40	40
Limestone	105	145

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 5-21-79

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
B-303			
Silty clay & topsoil, trace sand & gravel, brn & gray			2.0
Cinder fill, some topsoil, trace roots, blk, moist			2.5
Silty, clayey, fine to med. sand, trace gravel, brn, moist			5.0
Silty clay, trace sand, lt. brn & gray, stiff			8.0
Weathered rock			10.0
Dolomite, lt. gray, slightly vuggy occas. thin seams of gry-grn shale			66.0
Dolomite, slightly red, slightly vuggy occas. thin seams of gray-grn & red shale			80.0

Soil report with 7 borings filed at Warrenville
*Metropolitan Sanitary District of Greater Chicago
NO ENVELOPE

Received from Warrenville 7/9/76

COMPANY Soil Testing Services, Inc.
AREA *Lemont Inter. Sewer #3 NO. B-303
DATE DRILLED February 14, 1974 COUNTY NO. 25297
AUTHORITY Company

OFFICE BUILDING, SPRINGFIELD,
R SURVEYS SECTION. BE SURE TO

GEOLOGICAL WATER SURVEYS WATER WELL RECORD
October 1975

10. Dept. Mines and Minerals permit No. 41853 Year 1975
11. Property owner Lemont Shipbuilding Well No. 1
Address Box 370 Lemont Ill
Driller JP Miller Artesian Well License No. 102-1
12. Water from Niagaran (Formation) 13. County Cook
at depth 82 to 156 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 19
Twp. 37N
Rng. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT
1200'SL 1650' WL SW
(permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
10"	Steel 41lb.	0	11
7"OD	Steel 24lb.	0	80
7"	cemented in place		

16. Size Hole below casing: 7 in.
17. Static level 14 ft. below casing top which is 1 ft. above ground level. Pumping level 34 ft. when pumping at 25 gpm for 1 hours.
Sub pump set at 40'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	11	11
Niagaran Dolomite	104	115
Shale	41 52	156
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED R.C. Schlosser DATE 11-17-75

SICAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD
Completed 7-22-71

Steve Gurca

10. Property owner STEVE GURCA Well No. 1
Address RT. # 2 - LEMONT
Driller CORPORATE WELL DRILL License No. 180
11. Permit No. 13177 Date 6-24-71
12. Water from LIMESTONE (Formation) 13. County COOK
at depth 40 to 100 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 19
Twp. 37N
Rge. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT
NE NW NW
(Permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15lbs	0'	40'

16. Size Hole below casing: 5 in.
17. Static level 55 ft. below casing top which is +1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
TOP SOIL	1'	1'
CLAY	2'	3'
BOULDERS	12'	15'
LIME	85'	100'
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

[illegible] 7-29-71

TOWN

COMPANY Eggert

FARM Evan. Lutheran Cemetery

DATE DRILLED

AUTHORITY

COLLECTOR C. G. Johnson

TOWNSHIP Lemont NO. T. 37N R. 11E SEC. 30

ELEVATION 748 TM

SW SE SE SE

Item	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	SW Lemont				
	Drift	150		150	
	Limestone	25		175	

NO ENVELOPE

...STATE OFFICE BUILDING, SPRINGFIELD, ...AL/WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-20-72

10. Property owner Ernest Shadden Well No. 1
Address 324 New Ave. - Lemont
Driller Fairbanks Well & Pump License No. 180
11. Permit No. 70854 Date 11-8-72
12. Water from Limestone (Formation) 13. County Cook
at depth 40 to 145 ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____
Sec. 30
Twp. 37N
Rge. 11E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0'	40'

SHOW LOCATION IN SECTION PLAT
SW SW NW
(Permit)

16. Size Hole below casing: 5 in.
17. Static level 70 ft. below casing top which is +1 ft. above ground level. Pumping level 70 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2'	2'
Clay & Gravel	17'	19'
Limestone	126'	145'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert Parker DATE 11-25-72

LAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-20-73

10. Property owner Raven Inc. Well No. _____
Address Palos Park, Illinois
Driller B & K Well Drilling License No. 102-29
11. Permit No. 26648 Date Nov. 21 1973
12. Water from Limestone (Formation) 13. County Cook
at depth 63 to 280 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Halw. 15	0	195

SHOW LOCATION IN SECTION PLAT
Lot 6, Ramsgate Subd., SE (Permit)

16. Size Hole below casing: 5 in.
17. Static level 63 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Submersible pump set at 126'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	195
Rock Formation	195	280

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

Paul Knierim DATE 12/20/73

STATE OFFICE BUILDING, SPRINGFIELD,
GAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-1-74

10. Property owner Raven Inc. Well No. _____
Address Palos Park Ill. Lot #5
Driller B & K Well Drilling License No. 102-29
11. Permit No. 26647 Date Nov. 21 1973
12. Water from Limestone (Formation) 13. County Cook
at depth 65 to 280 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Black 15 lbs	0	205

SHOW LOCATION IN SECTION PLAT
Lot 5 Ramsgate Subd. in SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 65 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Submersible pump set at 126'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	205
Rock Formation	205	280

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 4-2-74

ICAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL REC

Completed 5-31-74

10. Property owner Bauer Inc Well No. _____
Address Cottage Place Rd Lot 4
Driller R. Russell Drilling License No. 102-29
11. Permit No. 36646 Date Nov. 21 1973
12. Water from Limestone (Formation) 13. County Cook
at depth 123 to 280 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 20
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Unlv. 15LBS	0	209

SHOW LOCATION IN SECTION PLAT
Lot 4, Ramsgate Subd., SE (Permit)

16. Size Hole below casing: 5 in.
17. Static level 123 ft. below casing top which is 2 ft. above ground level. Pumping level 163 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 163'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	209
Rock Formation	209	280

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE 6-5-74

NSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
DE PROPER LOCAT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-28-77

10. Property owner JOE ACETO Well No. _____
Address Lot 22
Driller R.R. Well License No. 102 B4
11. Permit No. 594499 Date 4/27/77
12. Water from LIME STONE (Formation) 13. County COOK
at depth 130 to 300 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Blk	0	200

SHOW LOCATION IN SECTION PLAT
Lot #22, Ramsgate Subd., S (permit)

16. Size Hole below casing: 5 in.
17. Static level 130 ft. below casing top which is 2 ft. above ground level. Pumping level 189 ft. when pumping at _____ gpm for _____ hours. Sub. pump set at 189'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
OVERBURDEN	200	200
ROCK FORMATION	100	300

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE 5/9/77

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 3-[illegible]-74

10. Property owner: Rowen Inc. Well No. _____
Address: Ramsgate Drive Villa Park
Driller: B & K Well Drilling License No. 102-29
11. Permit No. 272-55 Date June 17, 1974
12. Water from Limestone (Formation) 13. County Cook
at depth 86 to 320 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Hole 15lbs	0	173

SHOW LOCATION IN SECTION PLAT
Lot #18 SE NW SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 86 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 126'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	173
Rock Formation	173	320.

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12-26-74

DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed [illegible]-13-74

10. Property owner: Donald McGrath Well No. _____
Address: Villa Park 100 Block Ramsgate Drive
Driller: B & K Well Drilling License No. 102-29
11. Permit No. 32997 Date Sept. 13, 1974
12. Water from Limestone (Formation) 13. County Cook
at depth 120 to 300 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____
Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Hole 15lbs	0	180

SHOW LOCATION IN SECTION PLAT
Lot #19 Ramsgat SW NE SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 120 ft. below casing top which is 2 ft. above ground level. Pumping level 160 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 160'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	180
Rock Formation	180	300

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 12-24-74

QUESTED AND MAIL ORIGINAL TO STATE
UMER HEALTH PROTECTION, 535 WEST
1. DO NOT ATTACH GEOLOGICAL/WATER
PROPER WELL LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-22-76

10. Property owner Fancy Ring Blds Well No. _____
Address Palos Park, Ill.
Driller K-K Well Drilling License No. 102-29
11. Permit No. 54574 Date 11-4-76
12. Water from Rock Formation 13. County Cook
at depth 95 to 320 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 30
Twp. 37N
Rge. 11E
Elev. —

15. Casing and Liner Pipe

Diam (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15 lbs	0	173

SHOW LOCATION IN SECTION PLAT
Lot #27 Ramsgate Dr., Lot 7
SE NW SE
(permit)

16. Size Hole below casing: 5 in.
17. Static level 95 ft. below casing top which is _____ ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 126' TOP

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	173
Rock Formation	173	320

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-6-74

10. Property owner Ramsey Inc. Well No. _____
Address Ramsgate Drive Palos Park, Ill.
Driller K-K Well Drilling License No. 102-29
11. Permit No. 31176 Date July 11, 1974
12. Water from Limestone Formation 13. County Cook
at depth 86 to 330 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 30
Twp. 37N
Rge. 11E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Galv. 15 lbs	0	208

SHOW LOCATION IN SECTION PLAT
Lot #3 NE SW
SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 86 ft. below casing top which is 2 ft. above ground level. Pumping level 126 ft. when pumping at 20 gpm for 4 hours. Sub. pump set at 126'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	208
Rock Formation	208	330

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Kneisin DATE 12-26-74

COUNTY No. 24469