

RECEIVED

JAN 23 1995

# Mobil Chemical Company

PLASTICS DIVISION  
MOBIL ENV. AFFAIRS  
January 17, 1995  
MACEDON, NEW YORK 14502  
TELEPHONE (315) 986-6111

Peter R. Miller  
Engineering Geologist 2  
Division of Spill Prevention, Remediation and Response  
New York State Department of Environmental Conservation  
Region 8  
6274 East Avon-Lima Road  
Avon, NY 14414

re: Spill 9201343, Building 10 Courtyard  
Mobil Chemical, Macedon (T), Wayne County

Dear Mr. Miller:

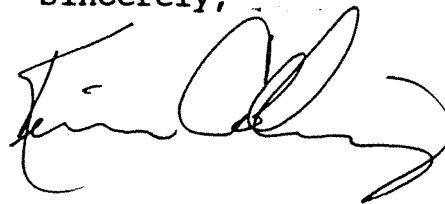
Attached is a report prepared by H&A of New York detailing a Soil-Gas Survey performed under contract to Mobil Chemical to address the concerns of your letter of May 20, 1993.

The results of their investigation indicate that no contamination (as evidenced by nondetection of targeted VOCs) exists in the soil of the Building 10 courtyard. Based upon these results I would like to request that this project be closed.

If you have any concerns please contact me at (315) 986-6253.

Thank you.

Sincerely,



Kevin Colling  
Environmental Engineer

XC: J. Butvinik, w/attachment  
W. Hyatt, w/attachment  
F. Mooney

SOIL-GAS SURVEY  
BUILDING 10 COURTYARD  
STORM-DRAIN NO. 93 AREA  
MOBIL CHEMICAL COMPANY  
MACEDON, NEW YORK

By:

H&A of New York  
Rochester, New York

For:

Mobil Chemical Company  
Macedon, New York

File No. 70524-000  
January 1995





10 January 1995  
File No. 70524-000

**Geotechnical Engineers &  
Environmental Consultants**

Mobil Chemical Company  
Flexible Packaging  
Plastics Division  
200 E. Main Street  
Macedon, New York 14502

Attention: Mr. Kevin M. Colling

Subject: Soil-Gas Survey  
Building 10 Courtyard  
Storm-Drain No. 93 Area

Gentlemen:

This report presents the results of H&A of New York's (H&A) soil-gas investigation inside the Building 10 Courtyard at the Mobil Chemical (Mobil) Macedon, New York plant, Figure 1. This work was performed in accordance with H&A's proposal dated 15 August 1994, and your subsequent authorization (Mobil Contract No. 45335764).

#### PURPOSE AND SCOPE

The objective of this investigation was to identify the presence and/or lateral extent of previously suspected soil contamination near storm-drain No. 93 in the Building 10 Courtyard. To accomplish this objective, the following work was performed:

- Soil and water analytical data from samples collected under the direction of Mobil personnel on 5 May 1992 were reviewed to evaluate the purported contamination.
- A brief site walkover was performed by H&A on 9 August 1994, accompanied by Mr. Kevin Colling (Mobil), to visually inspect the site and discuss Mobil's workscope requirements.
- A soil-gas survey was conducted by H&A personnel on 14 and 16 December 1994, consisting of 11 probe locations intended to identify the presence and/or lateral extent of the volatile organic compounds (VOCs) toluene and xylenes which had been detected in the May 1992 sample analyses.

#### INVESTIGATION RESULTS

Targeted VOCs, including toluene and xylenes, were not detected at any of the soil-vapor sampling locations tested by H&A, Table 1. The approximate location of the soil-vapor sampling locations within the Building 10 Courtyard area are shown on Figure 2. The calculated detection limits for the target compounds were between approximately 0.04 and 0.07 ppmV, Table 1.

Soils contaminated with toluene, xylene, and other compounds were previously identified by Mobil adjacent to storm-drain No. 93. However, based on the results of H&A's soil-gas survey it appears that the soils containing elevated concentration levels of toluene and xylene were removed during previous excavation activities conducted by Mobil. No evidence of residual vapor-phase toluene

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Scarborough, Maine  
Silver Spring, Maryland

Bedford, New Hampshire  
Cleveland, Ohio

and/or xylene was found by our sampling. The Building 10 Courtyard excavation activities were reportedly associated with the replacement of storm-drain No. 93 during 1992 and the repair of a water main during 1993. The approximate limits of the soil excavations conducted by Mobil are evidenced through areas of fresh concrete visible in the courtyard floor, Figure 2.

### RECOMMENDATIONS

No further action appears warranted based on the available data.

### SITE CONDITIONS

The Mobil plant is located on NY Route 31 and the NYS Erie Canal in Macedon, New York as shown on Figure 1, Project Locus. Storm-drain No. 93 is located outside the south wall of Building 10 in an approximately 21 by 42 ft. courtyard which is covered by a concrete slab. Building 10 is used for the manufacture of plastic bags which are produced from heat-extruded plastic resin. Water from storm-drain No. 93 discharges to the NYS Barge Canal via a permitted SPDES outfall.

### SOIL-GAS SURVEY

A soil-gas testing program was conducted by H&A on 14 and 16 December 1994. The program consisted of drilling 1-in. diameter holes through the courtyard's concrete floorslab at 11 locations. The sampling points were placed on approximate 8-ft. centers at the locations shown on Figure 2, Soil-Gas Survey Plan. At each sampling point, a 52-in. long by 1/2-in. diameter hardened-steel probe was advanced and then withdrawn leaving a probe hole. A section of new 3/16-in. diameter polypropylene tubing was inserted in each probe hole and packed-off using graded quartz sand followed by granular bentonite clay. Distilled water was then added to the probe-holes to hydrate the bentonite and seal the sample interval from the atmosphere. At sample locations SV-A2 and SV-B2, a 48-in. long by 3/8-in. diameter stainless steel sample tube was used due to the presence of loose fill deposits. The sampling-tube depths ranged from 3.1 to 4.4 ft. below grade.

The hardened-steel probe was decontaminated between each location using an alconox wash followed by a distilled water rinse, and towel drying.

Soil-gas was collected from each of the sampling tubes into 1-liter Tedlar airbags. The airbags were filled using an evacuated-canister method whereby an airbag is connected to the sampling tube by 1/8-in. diameter teflon tubing and placed into a rigid polycarbonate vessel. A partial vacuum is drawn on the vessel, causing the airbag to passively inflate with soil-gas. At each sample location, a 1-liter purge volume was withdrawn prior to collecting the sample to be analyzed.

The soil-gas samples were analyzed on-site within 30 minutes of sample collection on a Photovac 10s50 portable gas chromatograph (GC) equipped with a 10-meter long by 0.53-mm diameter CPSiL 5 capillary column and a 10.6 eV photoionization detector. Sample volumes of 100 microliters were analyzed by direct injection with a Hamilton 1700-series gas tight syringe. The sample chromatograms are included in Appendix A.



The portable GC was calibrated for BTEX compounds using a vapor-phase calibrant standard prepared by H&A using a 2-liter glass sphere, ultra-pure carrier grade air, and 0.5 microliter aliquots of neat reference-grade chemical standards. The calibrant standard consisted of the following:

<u>Compound</u>	<u>Calculated Concentration</u> <u>(parts-per-million by volume)</u>
benzene	68.6 ppmV
toluene	57.5
ethylbenzene	50.0
m-xylene	49.8
o-xylene	50.7

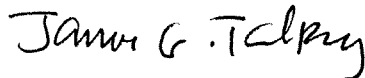
BTEX compounds or other volatile organics were not detected in any of the soil-vapor sampling locations tested by H&A, Table 1.

#### CLOSING

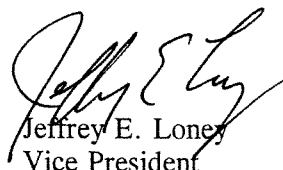
This report has been prepared for specific application to the subject site in accordance with generally accepted environmental investigation practices. No other warranty, expressed or implied, is made. In the event that any other information becomes available that could affect the conclusions and recommendations presented in this report, the conclusions should not be considered valid unless the new information is reviewed by H&A of New York and conclusions of this report modified or verified in writing.

Thank you for selecting H&A to assist Mobil in this investigation. If you have any questions or require additional information, please call.

Sincerely yours,  
H&A OF NEW YORK



James G. Talpey  
Senior Env. Geologist



Jeffrey E. Loney  
Vice President

Enclosures:

- Sources of Information
- Table 1 - Soil-Gas Testing Results
- Figure 1 - Project Locus
- Figure 2 - Soil-Gas Survey Plan
- Appendix A - Soil-Gas Chromatograms
- Appendix B - Storm-Sewer Utility Plan (detail)



## SOURCES OF INFORMATION

1. General Testing Corporation, 29 May 1992 Laboratory Report of EPA Method 8020 and 8270 analyses, Mobil Chemical Co. Plastics Div., Job No. R92/01813; 9 pgs.
2. NYSDEC, 20 May 1993, letter from P. Miller (Region 8) to A. D'Ambrosia (Mobil), 1 pg.
3. Mobil Chemical Company, 22 July 1994, letter from K. Colling (Mobil), 1 pg., and attached storm-drain utility plan.



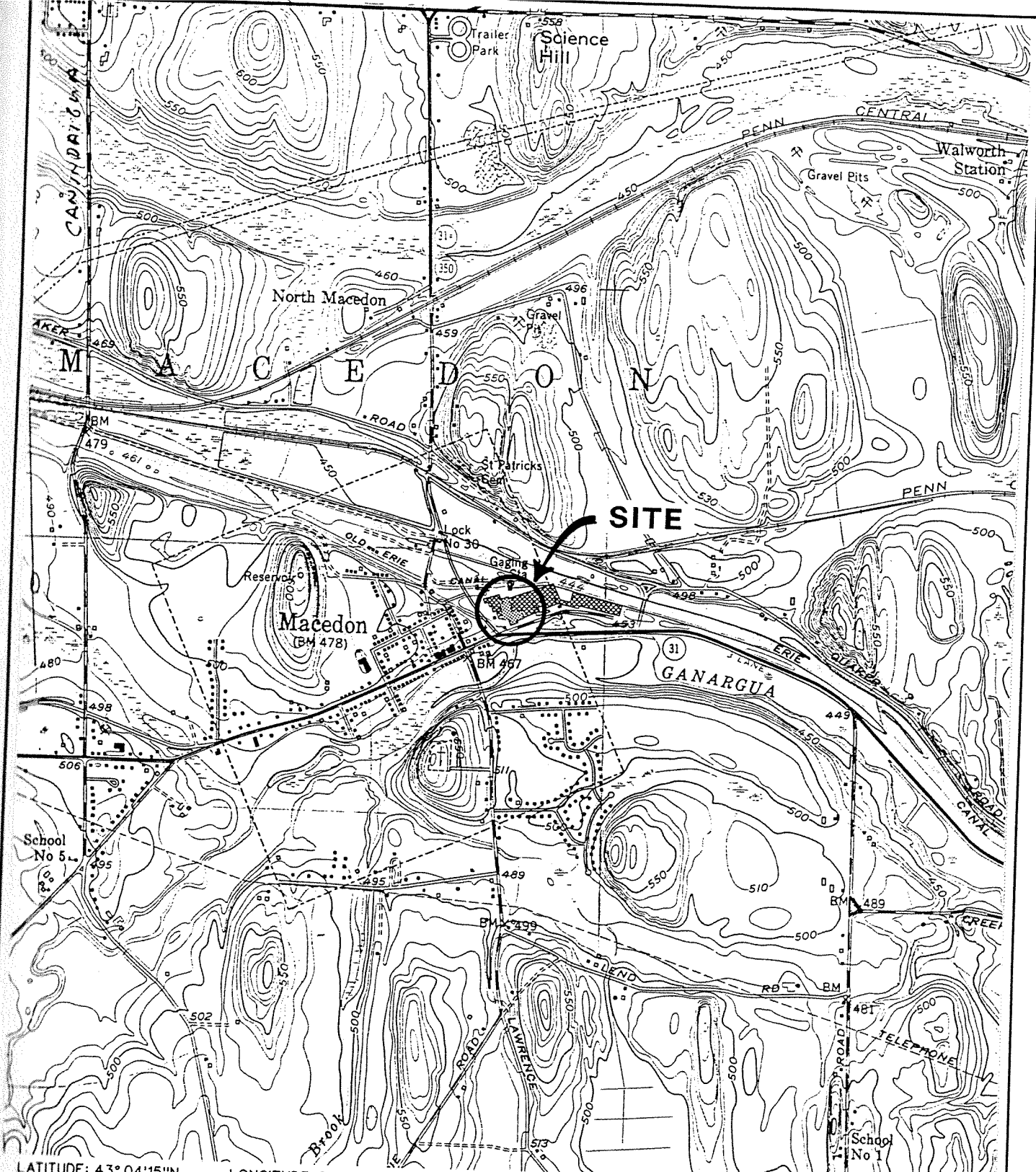
Table 1  
Soil-Gas Testing Results (ppmV)  
Mobil Chemical Company  
Building 10 Courtyard  
Macedon, New York

Sample Location	Sample Tube Depth (ft)	Benzene	Toluene	Ethyl Benzene	M-Xylene	O-Xylene	Unknown	Total
SV-A1	4.0	--	--	--	--	--	--	ND
SV-A2	4.4	--	--	--	--	--	--	ND
SV-A3	3.1	--	--	--	--	--	--	ND
SV-B1	3.8	--	--	--	--	--	--	ND
SV-B2	4.4	--	--	--	--	--	--	ND
SV-B3	4.4	--	--	--	--	--	--	ND
SV-C1	4.3	--	--	--	--	--	--	ND
SV-C2	4.3	--	--	--	--	--	--	ND
SV-D1	4.2	--	--	--	--	--	--	ND
SV-D2	4.2	--	--	--	--	--	--	ND
SV-D3	4.3	--	--	--	--	--	--	ND
Calculated Detection Limit		0.073	0.045	0.073	0.059	0.065	--	--

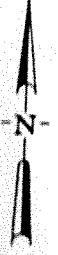
**NOTES:**

1. All compound concentrations reported in parts-per-million by molar volume in air (ppmV) referenced to vapor-phase calibrant standards.
2. -- and ND indicate not detected.
3. Calculated detection limits obtained using compound signal response factors and an assumed minimum peak area of 100 millivolt-seconds.
4. Refer to Figure 2 for sample locations, and report text for further information.

FILE No. 70524-000



LATITUDE: 43° 04'15"N      LONGITUDE: 77° 17'46"W



QUADRANGLE LOCATION  
U.S.G.S. QUADRANGLE: MACEDON, N.Y.


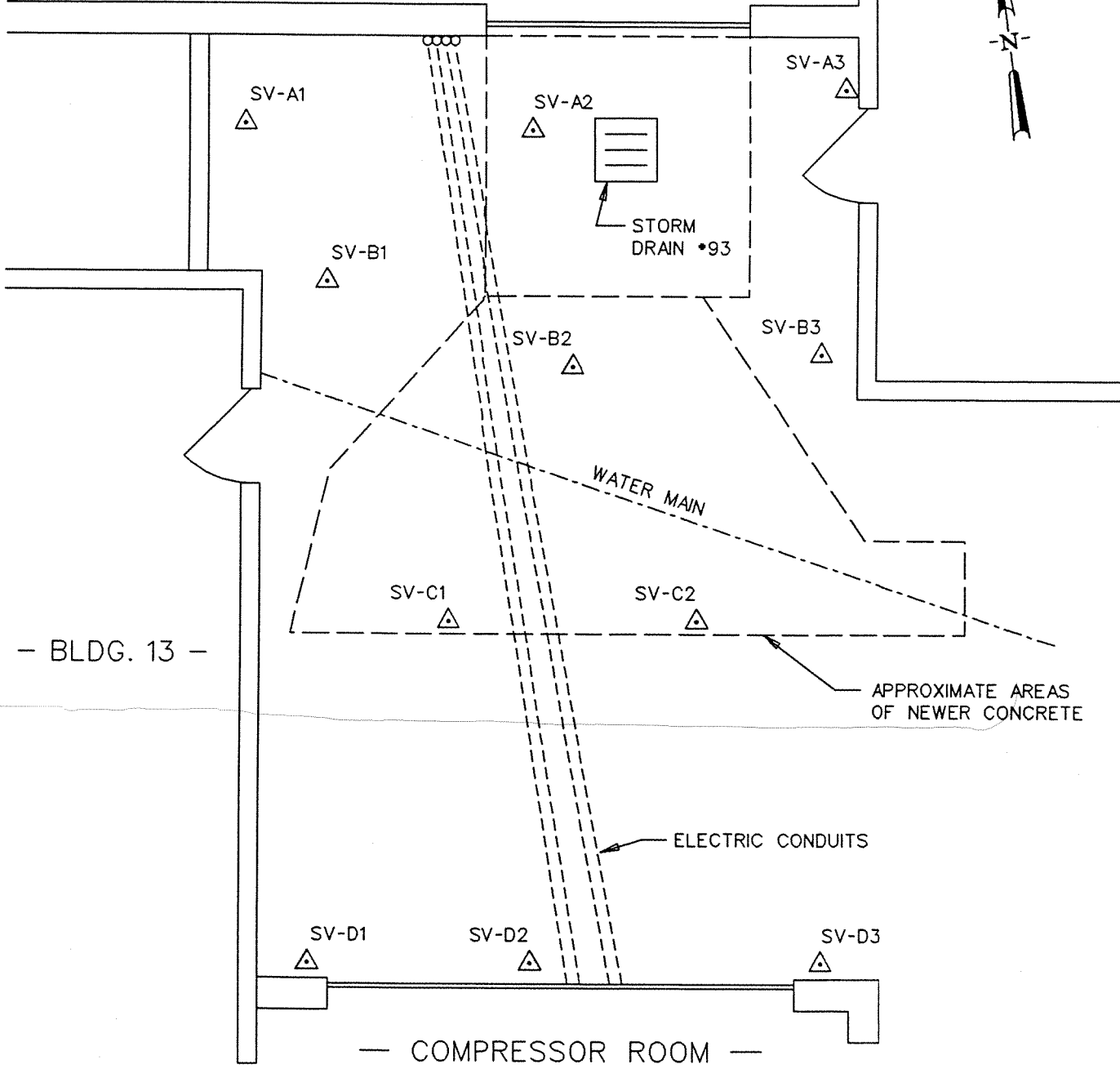
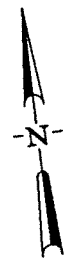
<b>H &amp; A OF NEW YORK</b>	
 Geotechnical Engineers & Environmental Consultants	
MOBIL CHEMICAL COMPANY BUILDING 10 COURTYARD MACEDON, NEW YORK	
<b>PROJECT LOCUS</b>	
SCALE: 1" = 2000'	
DECEMBER 1994	
FILENAME: 70524-000:SAL001A.MAN	


FIGURE 1



— BLDG. 10 —



**LEGEND:**

SV-B2  NUMBER AND APPROXIMATE LOCATION OF SOIL-GAS SAMPLE

**NOTES:**

1. BASE MAP SUPPLIED BY MOBIL CHEMICAL COMPANY. SOIL-GAS SAMPLE LOCATIONS ARE APPROXIMATE AS MEASURED FROM BUILDING WALLS.
2. SEE REPORT TEST FOR FURTHER INFORMATION.

**H & A OF NEW YORK**



Geotechnical Engineers & Environmental Consultants

MOBIL CHEMICAL COMPANY  
BUILDING 10 COURTYARD  
MACEDON, NEW YORK

**SOIL-GAS SURVEY PLAN**

SCALE: 1" = 5'

DECEMBER 1994

FILENAME: 70524-000:SAS002A.DGN

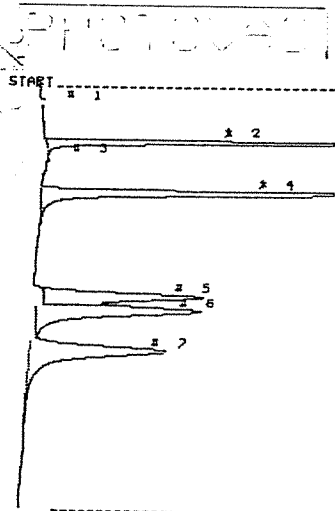
**FIGURE 2**

FILE No. 70524-000

APPENDIX A  
SOIL-GAS CHROMATOGRAMS



25  $\mu$ L BTEX STD.

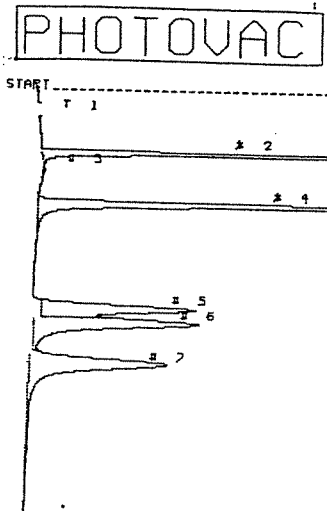


STOP @ 650.0  
 SAMPLE LIBRARY 1 PEC 11 1001 12:1  
 ANALYSIS # 5 PAPIL CHEMICAL  
 INTERNAL TEMP 27 MACERON, NY  
 PAIN 5 70521-000

OFFSET 60.0  $\mu$ V  
 CHART SPEED 0.5  $\mu$ V/IN  
 SLATE SENS. 5 5 1  $\mu$ V/5 $\mu$ s  
 WINDOW 1/- 5 Percent  
 MINIMUM AREA 100  $\mu$ V $\cdot$ S  
 TIMER DELAY 10.0 S  
 ANALYSIS TIME 650.0 S  
 CYCLE TIME 0 MIN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	80.1	12.7 US
UNKNOWN	4	158.0	14.5 US
UNKNOWN	5	323.3	7.8 US
UNKNOWN	6	345.5	3.5 US
UNKNOWN	7	413.2	8.3 US

25  $\mu$ L BTEX STD.

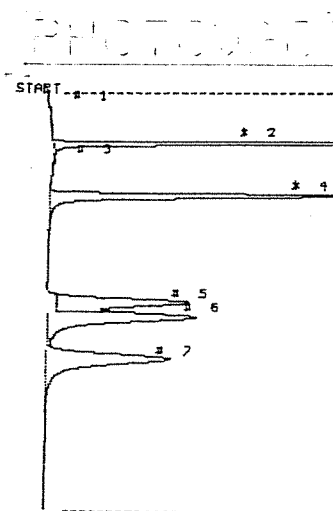


STOP @ 650.0  
 SAMPLE LIBRARY 1 PEC 11 1001 12:10  
 ANALYSIS # 6 PAPIL CHEMICAL  
 INTERNAL TEMP 20 MACERON, NY  
 PAIN 5 70521-000

SAMPLE LIBRARY 1 PEC 11 1001 10:10  
 ANALYSIS # 6 PAPIL CHEMICAL  
 INTERNAL TEMP 23 MACERON, NY  
 PAIN 5 70521-000

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	2	80.1	68.00 PPM
TOLUENE	4	158.1	50.33 PPM
ETHYLBENZENE	5	323.7	48.55 PPM
P-XYLENE	6	347.3	43.70 PPM
O-XYLENE	7	413.2	51.22 PPM

25  $\mu$ L BTEX STD.



STOP @ 650.0  
 SAMPLE LIBRARY 1 PEC 11 1001 10:50  
 ANALYSIS # 7 PAPIL CHEMICAL  
 INTERNAL TEMP 20 MACERON, NY  
 PAIN 5 70521-000

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	2	80.3	57.01 PPM
TOLUENE	4	162.1	33.53 PPM
ETHYLBENZENE	5	321.7	42.86 PPM
P-XYLENE	6	354.5	44.77 PPM
O-XYLENE	7	421.2	46.58 PPM

PHOTOVAC

SAMPLE LIBRARY 2 PEC 11 1001 15:21  
 ANALYSIS # 7  
 INTERNAL TEMP 20  
 PAIN 5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	80.3	8.8 US
UNKNOWN	3	100.3	8.5 $\mu$ US
UNKNOWN	4	162.1	8.5 US
UNKNOWN	5	321.7	6.7 US
UNKNOWN	6	354.5	8.5 US
UNKNOWN	7	421.2	8.2 US

PHOTOVAC

1	COMPOUND	ID #	R.T.	LIMIT
	BENZENE		25.2	68.00 PPM
	TOLUENE		158.0	57.50 PPM
	ETHYLBENZENE		323.3	50.00 PPM
	P-XYLENE		345.5	43.00 PPM
	O-XYLENE		413.2	50.70 PPM

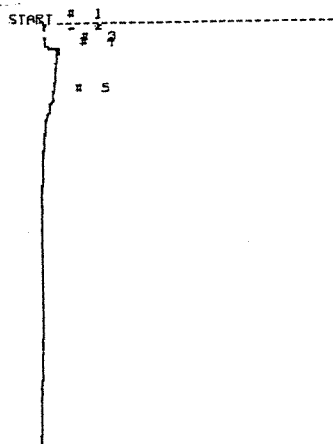
PHOTOVAC

SAMPLE LIBRARY 2 PEC 11 1001 10:11  
 ANALYSIS # 6  
 INTERNAL TEMP 23  
 PAIN 5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.4	7.3 $\mu$ US
UNKNOWN	2	80.1	10.6 US
UNKNOWN	3	100.5	13.5 $\mu$ US
UNKNOWN	4	153.4	12.3 US
UNKNOWN	5	225.7	7.6 US
UNKNOWN	6	347.3	3.5 US
UNKNOWN	7	413.2	3.0 US

100 mL SV-A1  
12/14/94 15:25

PHOTODUAC

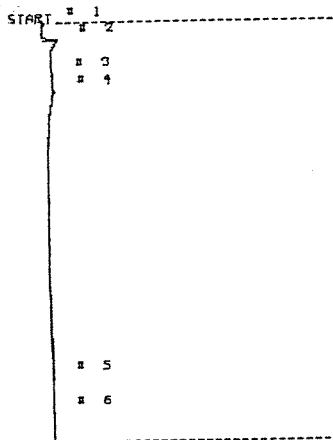


STOP # 650.0  
SAMPLE LIBRARY 1 DEC 11 1994 15:26  
ANALYSIS # 0 NAPIL CHEMICAL  
INTERNAL TEMP 01 NACEPPM, NY  
GAIN 10 79521-APP

COMPOUND NAME PEAK R.T. AREA/PPM

100 mL SV-B3  
12/14/94 16:10

PHOTODUAC

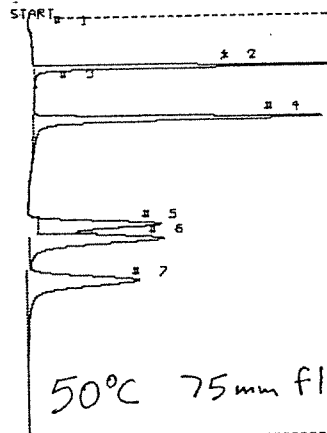


STOP # 650.0  
SAMPLE LIBRARY 1 DEC 11 1994 16:20  
ANALYSIS # 10 NAPIL CHEMICAL  
INTERNAL TEMP 01 NACEPPM, NY  
GAIN 10 79521-APP

COMPOUND NAME PEAK R.T. AREA/PPM

25 mL BTEX Std

PHOTODUAC

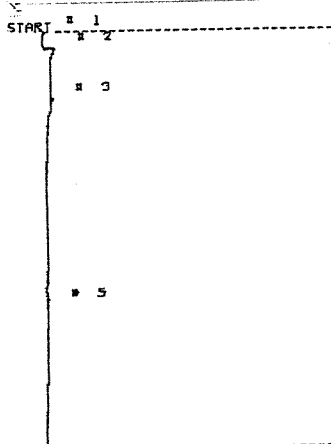


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SAMPLE LIBRARY 1 DEC 11 1994 16:50  
ANALYSIS # 12 NAPIL CHEMICAL  
INTERNAL TEMP 01 NACEPPM, NY  
GAIN 5 79521-APP

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	2	75.5	53.67 PPM
TOLUENE	4	160.7	23.37 PPM
ETHYLBENZENE	5	328.1	33.18 PPM
m-XYLENE	6	350.3	37.78 PPM
p-XYLENE	7	416.0	33.64 PPM

100 mL SV-AA  
12/14/94 15:30

PHOTODUAC

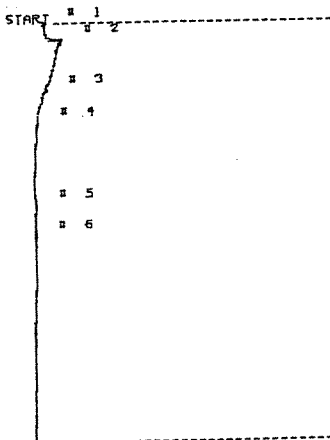


STOP # 650.0  
SAMPLE LIBRARY 1 DEC 11 1994 16:1  
ANALYSIS # 3 NAPIL CHEMICAL  
INTERNAL TEMP 01 NACEPPM, NY  
GAIN 10 79521-APP

COMPOUND NAME PEAK R.T. AREA/PPM

100 mL SV-C1  
12/14/94 16:30

PHOTODUAC



STOP # 650.0  
SAMPLE LIBRARY 1 DEC 11 1994 16:16  
ANALYSIS # 11 NAPIL CHEMICAL  
INTERNAL TEMP 01 NACEPPM, NY  
GAIN 10 79521-APP

COMPOUND NAME PEAK R.T. AREA/PPM

# PHOTOVAC

DEC 16 1994 3:47

FIELD: 23  
POWER: 37

SAMPLE	0.0	10.0
CAL	0.0	0.0
EVENT 3	0.0	115.0
EVENT 4	0.0	0.0
EVENT 5	0.0	0.0
EVENT 6	0.0	0.0
EVENT 7	0.0	0.0
EVENT 8	0.0	0.0

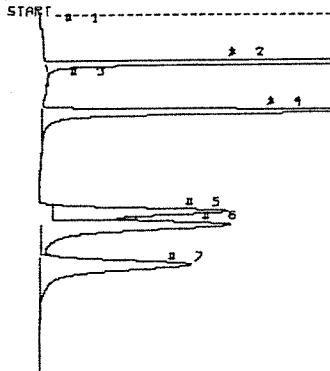
# PHOTOVAC

1 COMPOUND ID # R.T. LIMIT

BENZENE	1	80.1	68.68 PPM
TOLUENE	2	158.0	57.58 PPM
ETHYLBENZENE	3	313.3	50.00 PPM
m-XYLENE	4	334.5	43.00 PPM
p-XYLENE	5	403.7	50.70 PPM

25 µL BTEX Std.

# PHOTOVAC



50°C 76mm flow

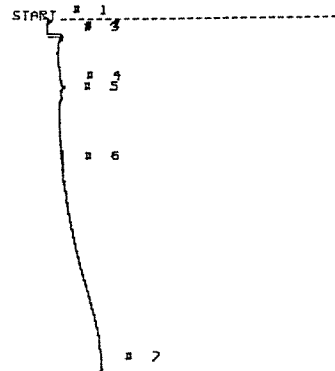
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SAMPLE LIBRARY 1 DEC 16 1994 10:25  
ANALYSIS # 1 NAPPIL CHEMICAL  
INTERNAL TEMP 26 NACEPPM, NY  
GAIN 5 79521-PPP

OFFSET 22.0 µV  
CHART SPEED 0.5 µV/IN  
SLAVE SENS. 5 5 1 µV/500  
WINDOW 1/1 5 P-accept  
MINIMUM AREA 100 µV/500  
TIMER DELAY 10.0 S  
ANALYSIS TIME 650.0 S  
CYCLE TIME 0 MIN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	2	77.1	76.53 PPM
TOLUENE	4	153.1	83.68 PPM
ETHYLBENZENE	5	313.1	54.32 PPM
ETHYLBENZENE	6	334.1	82.72 PPM
p-XYLENE	7	336.4	55.00 PPM

100 µL SV-C1  
12/16/94  
10:45

# PHOTOVAC



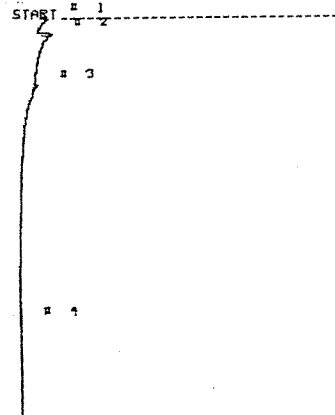
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SAMPLE LIBRARY 1 DEC 16 1994 11:0  
ANALYSIS # 5 NAPPIL CHEMICAL  
INTERNAL TEMP 23 NACEPPM, NY  
GAIN 10 79521-PPP

OFFSET 22.0 µV  
CHART SPEED 0.5 µV/IN  
SLAVE SENS. 5 5 1 µV/500  
WINDOW 1/1 5 P-accept  
MINIMUM AREA 100 µV/500  
TIMER DELAY 10.0 S  
ANALYSIS TIME 650.0 S  
CYCLE TIME 0 MIN

COMPOUND NAME PEAK R.T. AREA/PPM

100 µL SV-C2  
12/16/94  
10:59

# PHOTOVAC



STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1994 11:15  
ANALYSIS # 6 NAPPIL CHEMICAL  
INTERNAL TEMP 20 NACEPPM, NY  
GAIN 10 79521-PPP

COMPOUND NAME PEAK R.T. AREA/PPM

# PHOTOVAC

SAMPLE LIBRARY 2 DEC 16 1994 10:15  
ANALYSIS # 1  
INTERNAL TEMP 20  
GAIN 5

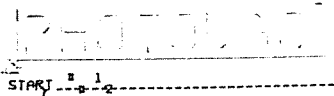
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	77.1	11.8 US
UNKNOWN	3	108.5	10.3 µS
UNKNOWN	4	153.1	16.1 US
UNKNOWN	5	313.1	8.6 US
UNKNOWN	6	334.1	10.6 US
UNKNOWN	7	336.4	9.7 US

# PHOTOVAC

1 COMPOUND ID # R.T. LIMIT

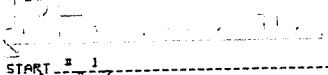
BENZENE	1	77.1	68.68 PPM
TOLUENE	2	153.1	57.58 PPM
ETHYLBENZENE	3	313.1	50.00 PPM
m-XYLENE	4	334.1	43.00 PPM
p-XYLENE	5	403.7	50.70 PPM

100µL SV-D3  
12/16/93 11:20



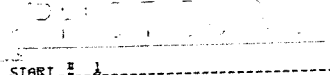
STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1993 11:00  
ANALYSIS # 2 PAPIL CHEMICAL  
INTERNAL TEMP 21 PACEPPM, NY  
RAIN 1P 2P521-APP  
COMPOUND NAME PEAK R.T. AREA/PPM

100µL SV-A2  
12/16/94  
12:45



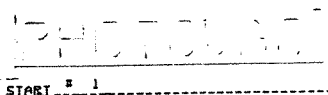
STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1994 12:51  
ANALYSIS # 3 PAPIL CHEMICAL  
INTERNAL TEMP 21 PACEPPM, NY  
RAIN 1P 2P521-APP  
COMPOUND NAME PEAK R.T. AREA/PPM

100µL SV-D2  
12/16/94 13:10



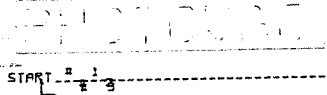
STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1994 13:20  
ANALYSIS # 11 PAPIL CHEMICAL  
INTERNAL TEMP 21 PACEPPM, NY  
RAIN 1P 2P521-APP  
COMPOUND NAME PEAK R.T. AREA/PPM

100µL SV-D1  
12/16/94 11:40



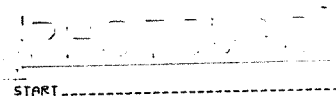
STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1994 12:00  
ANALYSIS # 8 PAPIL CHEMICAL  
INTERNAL TEMP 21 PACEPPM, NY  
RAIN 1P 2P521-APP  
COMPOUND NAME PEAK R.T. AREA/PPM

100µL SV-B2  
12/16/94  
13:00



STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1994 13:00  
ANALYSIS # 10 PAPIL CHEMICAL  
INTERNAL TEMP 21 PACEPPM, NY  
RAIN 1P 2P521-APP  
COMPOUND NAME PEAK R.T. AREA/PPM

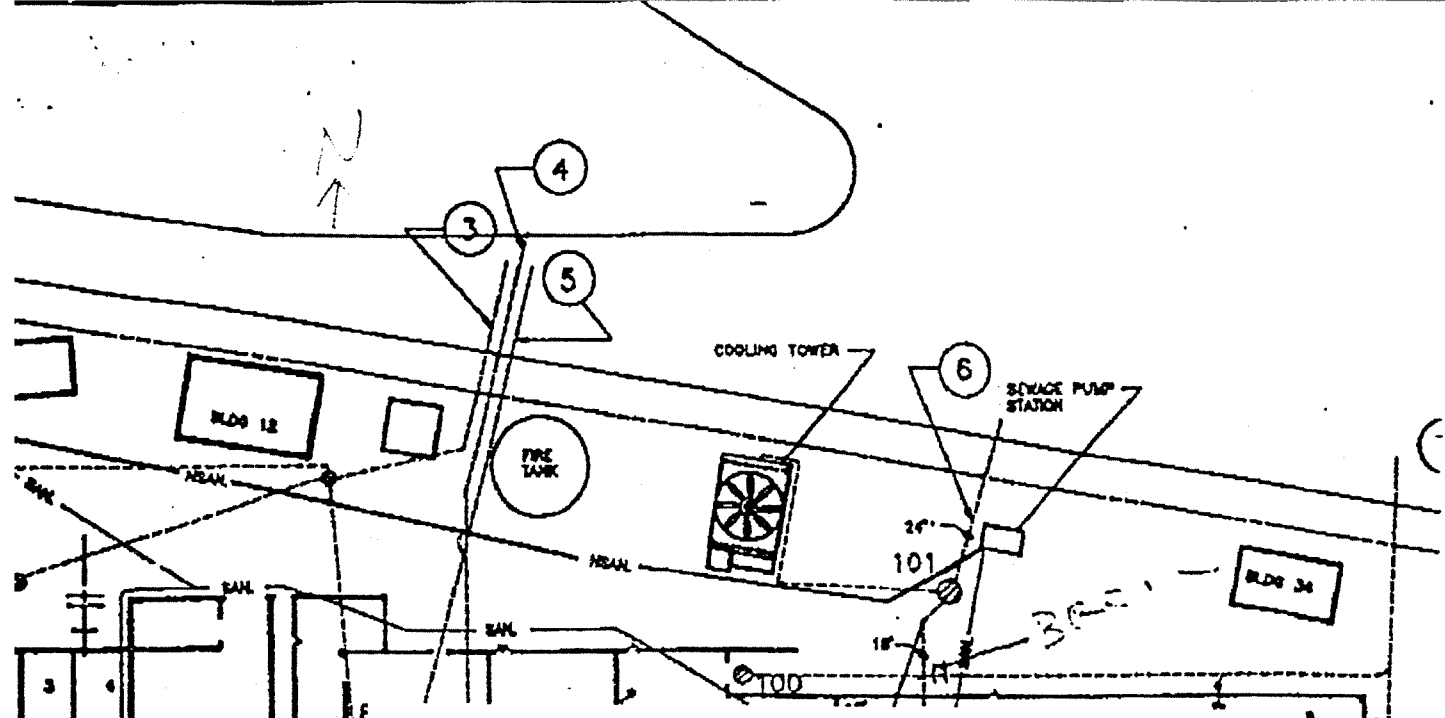
25µL BTEX Std.



STOP # 650.0  
SAMPLE LIBRARY 1 DEC 16 1994 13:02  
ANALYSIS # 12 PAPIL CHEMICAL  
INTERNAL TEMP 21 PACEPPM, NY  
RAIN 5 2P521-APP  
COMPOUND NAME PEAK R.T. AREA/PPM  
BENZENE 3 25.0 43.64 PPM  
TOLUENE 5 150.4 20.64 PPM  
ETHYLBENZENE 7 308.3 28.53 PPM  
P-XYLENE 8 323.3 37.21 PPM  
O-XYLENE 9 331.5 38.13 PPM

APPENDIX B  
STORM SEWER UTILITY PLAN (DETAIL)

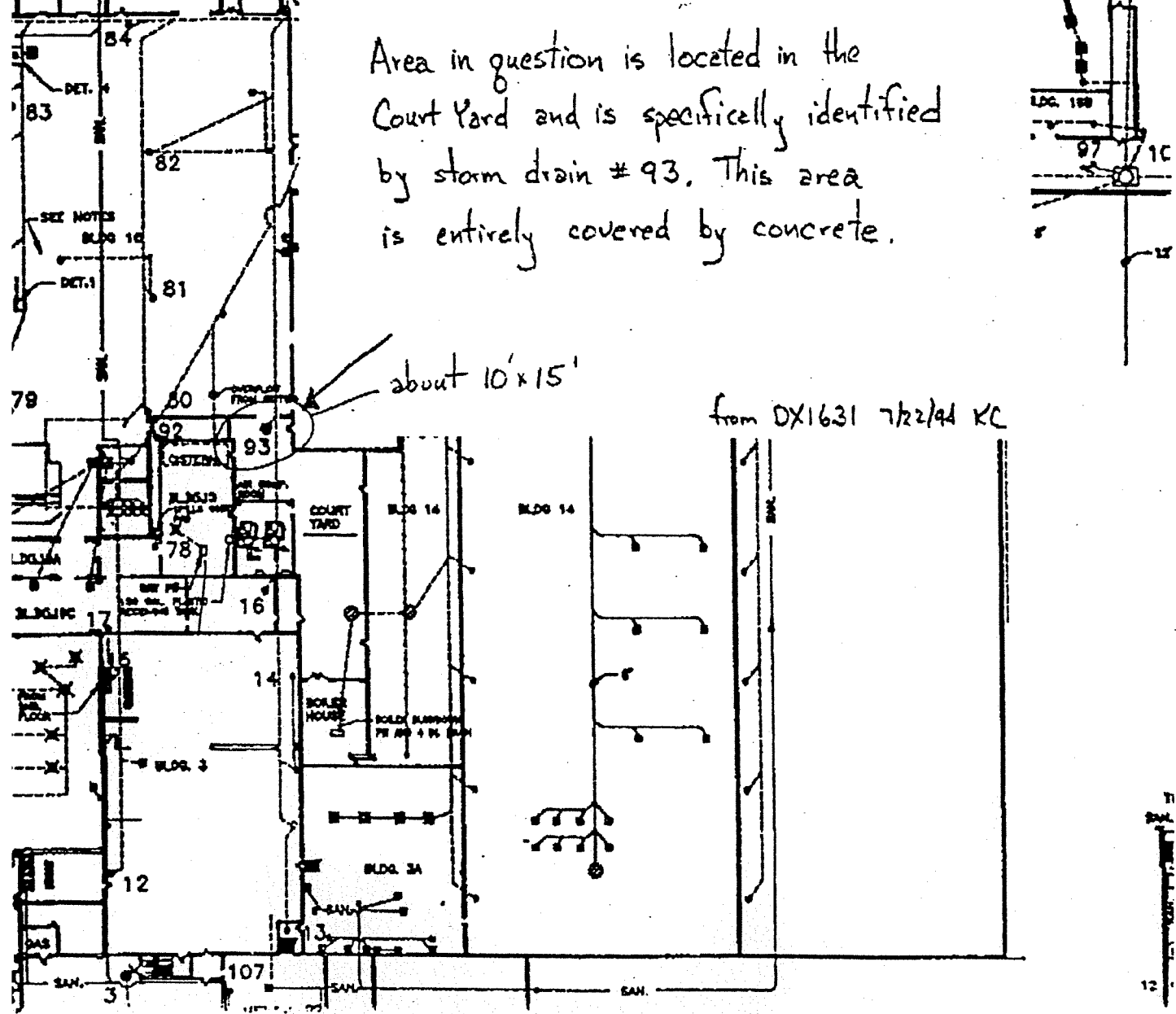




Area in question is located in the Court Yard and is specifically identified by storm drain # 93. This area is entirely covered by concrete.

about 10'x15'

from DX1631 7/2/94 KC



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