SDMS Document
94601

Lower Passaic River Study Area

DIRECT DISCHARGE PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

PRP DATA EXTRACTION FORM AND EVIDENCE CONCERNING:

Whippany Paper Board

PREPARED FOR:

LOWER PASSAIC RIVER STUDY AREA
COOPERATING PARTIES GROUP

SUBMITTED TO:
USEPA REGION II

May 3, 2006

946010001

LOWER PASSAIC RIVER STUDY AREA

DIRECT DISCHARGE PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

WHIPPANY PAPER BOARD

PRP DATA EXTRACTION FORM

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15	1990	27-Aug	Letter from Hazardous Engineering Consultants to the NJDEP re: Whippany Paper Board Company and progress report on cleanup activities
16	1987	17-Jul	NJDEP ECRA General Information Submission re: Whippany Paper Board Company
17	1977	20-May	Passaic Valley Sewerage Commissioners Bi-Monthly Report for March and April 1977
18	1977	25-Mar	Passaic Valley Sewerage Commissioners Bi-Monthly Report for January and February 1977
19	1970	31-Mar	Passaic Valley Sewerage Commissioners report on Pollutions corrected during 1969
20	1977	Feb&June	Passaic Valley Sewerage Commissioners report of violations during February and June of 1977 at Whippany Paper Board
21	1977	9-Dec	Passaic Valley Sewerage Commissioners Bi-Monthly report for September and October 1977
22	1977	27-Jul	Passaic Valley Sewerage Commissioners Bi-Monthly report for May and June 1977
23	1977	25-Mar	Passaic Valley Sewerage Commissioners Bi-Monthly Report for January and February 1977
24	1976	29-Nov	Passaic Valley Sewerage Commissioners Monthly Report for October 1976
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26	1976	18-Oct	Passaic Valley Sewerage Commissioners Monthly Report for August and September 1976
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32	1985	25-Mar	NJDEP Application for ECRA review - Site Evaluation Submission
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34	1985	23-Aug	Letter from NJDEP to Whippany Paper Board re: ECRA complete
35	1986	21-Jan	Letter from NJDEP to Whippany Paper Board re: Cleanup plan
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42	1988	26-Oct	Letter from Hazardous Engineering Consultants to NJDEP re: Recycled Paper Board former Whippany Paper Board
43			Results of EPA Priority Pollutant Volatile Compounds
44	1989	11-Jan	York Laboratories results of sample analysis
45	1990	17-Jul	Analytical Test Results for Whippany Paper Board. Prepared by Hazardous Waste Engineering Consultants
46	1990	24-Oct	Letter from Hazardous Engineering Consultants to NJDEP re: Whippany Paper Board progress report
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48	1928	30-Apr	Report to the Chief Engineer of Passaic Valley Sewerage Commission re: sources of pollution
49	1937	8-Sep	Report from the Chief Engineer to the Passaic Valley Sewerage Commission re: report listing all municipal and private dumps bordering along the Passaic River within the Passaic Valley
50	1947	24-Mar	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during February 1947
51	1947	23-Jun	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during May 1947
52	1947	25-Aug	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during June and July 1947
53	1947	24-Oct	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during September 1947
54	1948		Report to the Passaic Valley Sewerage Commissioners re: stream contamination during January 1948
55			Report to the Passaic Valley Sewerage Commissioners re: stream contamination during September and October
56	1956	Feb/Mar	PVSC Weekly Summary of Inspections by Inspectors - week of February 27 to March 2, 1956
57	1956	December	PVSC Weekly Summary of Inspections by Inspectors - week of December 17 to December 21, 1956
58	1977	21-Sep	Passaic Valley Sewerage Commissioners Bi-Monthly Report for July and August 1977
59	1926	4-Aug	Memo from R.C.Smith to Ralph Van Duyne re: Firms who are lagging or delinquent in eliminating their pollution
60	1926	17-Mar	Memo to Mr. J. Ralph Van Duyne Chief Engineer re: Clifton Paper Mills
61	1971	27-Jan	NJDEP Stream or Wastewater Analysis field information
62	1972	4-Apr	NJDEP Stream or Wastewater Analysis field information
63	1985	19-Mar	Online documents re: Sale of Paper Mill
64	1990	24-Jul	Online documents re: Recycling reopens Clifton Mill
65	1976	30-Sep	Letter from Whippany Paper Board to Passaic Valley Sewerage Commissioners re: discharges

Tab No.	Year	Day and Month	Description
66			Newspaper article from Herald News re: Plan revealed for Whippany Plant
67	1985	12-Dec	Letter from Hazardous Engineering Consultants to NJDEP re: Whippany Paper Board progress report
68			NJDEP letter to Whippany Paper Board re: Sampling plan
69	1935		Sanborn Map
70	1951		Sanborn Map
71	2000	12-Jul	On-Line document re: Eden Wood Realty
72	2000	10-Dec	On-Line document re: Neighbors fear loss of woods to planned warehouse
73	1988	19-Jul	Certificate of Amendment to the Certificate of Incorporation of Whippany Paper Board Company
74	1969	November	Report On The Quality Of The Interstate Waters Of The Lower Passaic River And Upper And Lower Bays Of New York Harber
75	1995	September	Remedial Investigation Report Route 21 Freeway Extension Prepared by Roy F. Weston
76	1945	March	Sewer Map for City of Clifton

LOWER PASSAIC RIVER STUDY AREA
PRP DATA EXTRACTION FORM

CLIFTON PAPER BOARD / WHIPPANY PAPER BOARD / EDEN WOOD CORPORATION / EDEN WOOD REALTY COMPANY

CURRENT MAILING ADDRESS/CONTACT INFO:

Amy Neu, President
Eden Wood Corporation
Eden Wood Realty, LLC
47 Parsippany Road
Whippany, NJ 07981

(ABK000031 at Tab 7, ABK000369 at Tab 27, ABK000372 at Tab 27)

FACILITY ADDRESS:

Whippany Paper Board Company, Inc. ("WPB")
Block 4-15, Lot 1
1 Ackerman Avenue
Clifton, NJ 07011
(the "Site")

(ABK000443 at Tab 31)

Clifton Paper Board Co., Inc.
1 Ackerman Avenue
Clifton, NJ

(ABK000013 at Tab 5)

Recycled Paper Board
1 Ackerman Avenue
Clifton, NJ 07011

(ABK000575 at Tab 42)

FINANCIAL VIABILITY (annual revenue, # of employees):

The site and facility was owned and operated from 1930 through late 1986 by Whippany Paper Board Company, Inc. (ABK000160 at Tab 16)

Through WPB history, the number of employees has ranged from 189 to 275 employees

(ABK000009, ABK000011, and ABK000013).

WPB filed for reorganization under Chapter 11 in February, 1980 and continued to operate until June of that year, when a shortage of cash forced the company to shut down. (ABK001075 at Tab 66)

However, media sources note that the 1983 New Jersey State Industrial Directory entry for WPB lists the company as having sales between $1 Million to $5 Million dollars. (ABK001056-1057 at Tab 63)

As of late 1986, NPN Incorporated ("NPN"), a Delaware corporation, acquired approximately 76% of the outstanding shares of WPB. NPN was subsequently merged into WPB, leaving WPB as the "owner of record." (ABK000160 at Tab 16)

On July 5, 1988, WPB filed a Certificate of Amendment, changing its name to Eden Wood Corporation ("Eden Wood"). (ABK000384 at Tab 28, ABK000396-400 at Tab 73)Eden Wood is described as a "real estate holding company and owner and operator of ocean going motor vessels." (ABK000031 at Tab 7)

Information has been developed to date concerning Eden Wood Realty Company, an affiliate of Eden Wood. Online sources list Eden Wood Realty Company as a subsidiary of Neu Holdings Corporation. As of 2000, Eden Wood Realty Company owned more than 3 million square feet of office and industrial space in New Jersey, Pennsylvania, and California (ABK001078-1079 at Tab 71, ABK000031 at Tab 7).

Information is unavailable to date concerning Eden Wood's current financial status.

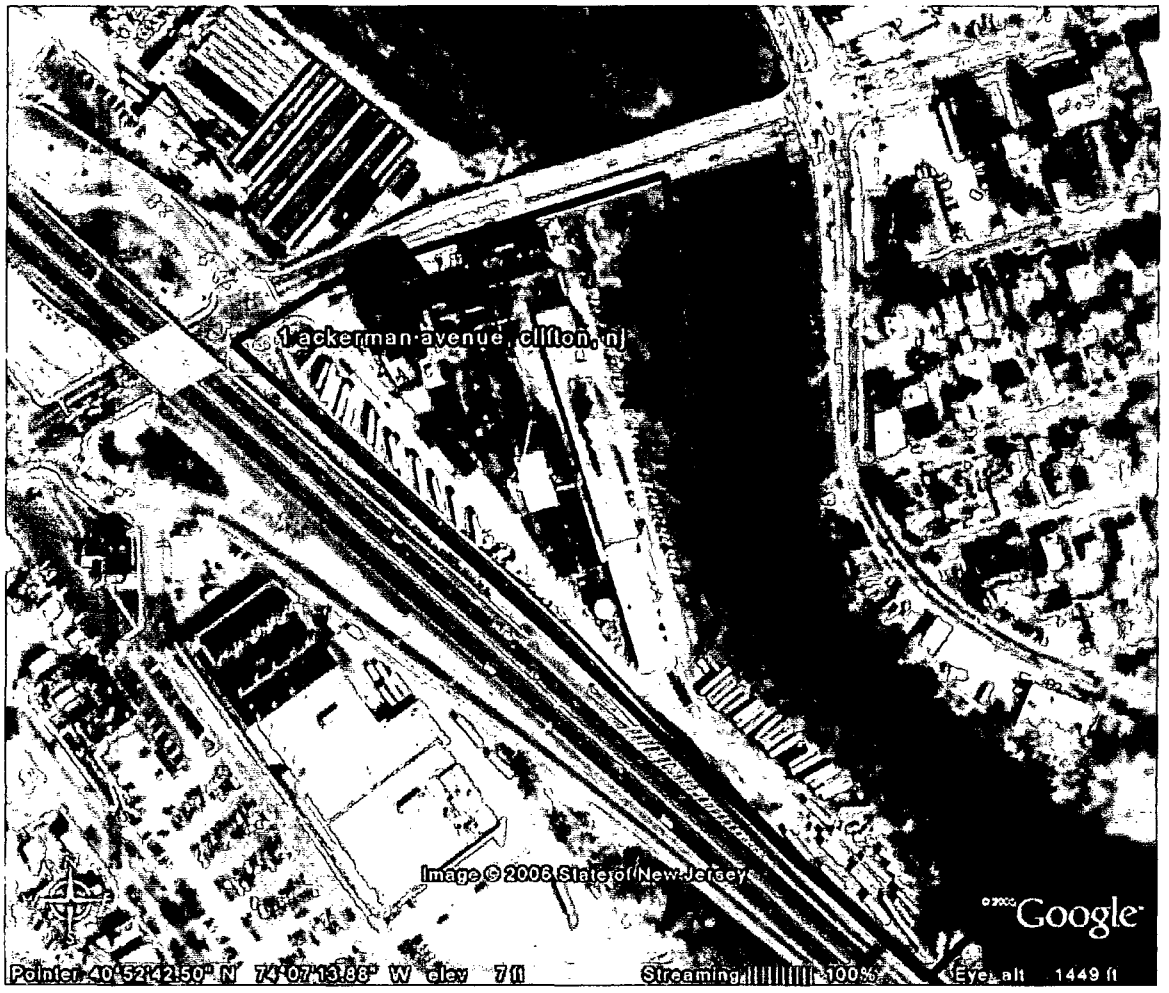
DATES OF OPERATION (include info. on predecessors/successors if known):

Whippany Paper Board Company, Inc., and its predecessors owned and operated the Site from 1930 to late 1986. (ABK000001 at Tab 69, ABK000002 at Tab 70, ABK000009 at Tab 3, ABK000011 at Tab 4, ABK000013 at Tab 5, ABK000160 at Tab 16, ABK000444 at Tab 31)

DESCRIPTION OF FACILITY OPERATIONS (list CERCLA hazardous substances used, manufactured or present):

The WPB site is bordered on the east by the Passaic River and on the west by the Dundee Canal (ABK000210 at Tab 9). Ackerman Avenue borders the site to its north. Information obtained to date indicates that the site consists of approximately 8.58 acres of land on a fairly triangular-shaped island in the Passaic River (ABK001056-1057 at Tab 63, ABK000001 at Tab 69, ABK000002 at Tab 70).

The following annotated aerial photograph identifies the approximate location of the Ackerman Avenue Site:



Whippany Paper Board
1 Ackerman Avenue
Clifton, NJ

Aerial photograph dated 2006.
All annotated site outlines and locations are approximations.
Source: Google Earth (State of New Jersey)

WPB began operations at the Ackerman Avenue site in the 1930s as a one-truck scrap paper business. (ABK000444 at Tab 31, ABK001075 at Tab 66)

The facility is listed in historical industrial directories as Clifton Paper Board Company, Inc. However, information provided on ECRA (now the Industrial Site Recovery Act "ISRA") documentation indicates that the Site was owned and operated from 1930 through late 1986 by

Whippany Paper Board Company, Inc. (ABK000001 at Tab 69, ABK000002 at Tab 70, ABK000009 at Tab 3, ABK000011 at Tab 4, ABK000013 at Tab 5, ABK000160 at Tab 16, ABK000444 at Tab 31)

WPB manufactured container board, box board and roofing felt and shingles. By 1978, WPB had an estimated annual capacity of approximately 82,500 tons of product and was operating at 58% of capacity. At that time, WPB occupied approximately 169,600 square feet and utilized truck-loading facilities located on-site as well as nearby rail transportation. (ABK000450 at Tab 32)

Hazardous substances used on-site include, but are not limited to the following.

- Fuel oil
- Hydraulic oil
- Kerosene
- Mineral spirits

(ABK000227-228 at Tab13, ABK000451 at Tab 32, ABK000456 at Tab 33)

WPB filed for Chapter 11 in February, 1980, though it continued to operate for four months until funds ran short. Subsequent to its bankruptcy filing, WPB entered into a contract to sell the Clifton facility to V. Ponte & Sons, Inc. ("Ponte"). The pending property transaction served to trigger the application by the State of New Jersey Department of Environmental Protection ("NJDEP") of ECRA, (now ISRA), administrative requirements concerning the Site. (ABK000556 at Tab 41, ABK001075 at Tab 66)

Subsequent in turn to the original Ponte transaction, in 1986 NPN made an offer to acquire "all of the stock of Whippany Paper Board Co., Inc." That transaction served to again trigger ECRA/ISRA. At the end of 1986, NPN "acquired a controlling interest in Whippany placing it under new management." Whippany then terminated the initial agreement to sell the Clifton Site to Ponte. NPN was merged into WPB, leaving WPB as the surviving corporate entity.

(ABK000160 at Tab 16, ABK000544 at Tab 39, ABK000556 at Tab 41)

NJDEP issued an Administrative Consent Order on December 16, 1986 and directed both NPN and WPB to assume responsibility for the ECRA/ISRA clean-up of the Site. (ABK000543-551 at Tab 39)

In 1987, as a result of a legal action, a new agreement was entered into between WPB and Ponte, whereby title to the Site was transferred from WPB to Ponte. It was reported in an October 9, 1987, letter to NJDEP from Clapp & Eisenberg as counsel for Ponte that "Ponte assumed the obligation to clean up the Clifton facility and has taken steps to do so." (ABK000225-226 at Tab 12, ABK000553 at Tab 40, ABK000555 - ABK000556 at Tab 41)

As of July 5, 1988, WPB changed its name to Eden Wood Corporation ("Eden Wood"). Information developed to date indicates that Eden Wood Realty has cleaned up another WPB site

located in Hanover Township (Whippany), NJ. The Hanover Township site is located off of Parsippany Road and was zoned as residential in 1946 but was being used by WPB as a landfill (ABK000384 at Tab 28, ABK000396-400 at Tab 73, ABK001080 – ABK001082 at Tab 72)

As of 1988, the Site was operating under the name of Recycled Paper Board, Inc ("RPBI"). RPBI is owned by Ponte, and was reportedly given a $10 million loan from the state Economic Development Authority and a $700,000 Urban Development Action Grant from the US Department of Housing and Urban Development to re-open the WPB site in 1990. (ABK000575 at Tab 42, ABK001060-1061 at Tab 64)

Information developed to date indicates that Site soils and groundwater are contaminated with volatile organic compounds ("VOCs"), Base Neutral Acids ("BNAs"), low levels of polychlorinated biphenyls ("PCBs"), petroleum hydrocarbons ("PHCs"), and heavy metals. As of 1990 the total cost for clean-up at the WPB site was estimated at approximately $44,000. (ABK000196-202 at Tab 8, ABK000214-215 at Tab 10, ABK000221 at Tab 11, ABK000228-236 at Tab 13, ABK000241-245 at Tab 14, ABK000249-251 at Tab 14, ABK000252-253 at Tab 15, ABK000462-463 at Tab 34, ABK000471 at Tab 67, ABK000474-475 at Tab 35, ABK000519-531 at Tab 36, ABK000605 – ABK000609 at Tab 43, ABK000612-613 at Tab 43, ABK000626-635 at Tab 44, ABK000667-865 at Tab 45, ABK000973-974 at Tab 46, Tab ABK000978 at Tab 47)

A final report summarizing all cleanup activities completed to date discusses remedial work completed related to: (1) drum storage area, and (2) 160,000 gallon above ground fuel oil storage tank. Contaminated soil in these areas was excavated and clean fill was inserted. (ABK000195 - ABK000196 at Tab 8, ABK000201 at Tab 8)

NJDEP reports that the soil in the drum storage area onsite is contaminated with lead, copper, mercury, and PHCs. In addition, an unidentified pit, 4" in diameter was filled with an unidentified oily substance. NJDEP also noted that the transformer area onsite is contaminated with PCBs. Soil underneath both on-site USTs and above ground fuel oil tanks is contaminated with fuel oil and PHCs. (ABK000415-416 at Tab 29, ABK000434-436 at Tab 30)

No dioxin-sampling event has been required at the Site to date, as per documents reviewed. However, according to the Weston 1995 Section 4M/6J Report, 17 dioxin compounds were detected in one or more samples of the sediments of the Dundee Canal directly adjacent to the WPB site. Concentrations of all dioxins ranged up to 22,590 ppt. Concentration of 2,3,7,8 TCDD ranged up to 69.8 ppt. (ABK001106-1148 at Tab 75)

PERMITS (provide dates):

NPDES:

Information is not available at this time.

POTW (pretreatment):

Information is not available at this time.

PVSC:

WPB states in their ECRA General Information Submission that this facility discharged to the PVSC system, however specific permit information is not available. (ABK000443 at Tab 31)

NEXUS TO LOWER PASSAIC RIVER STUDY AREA (describe in detail; cite to supporting documentation; date or time period of disposal; list CERCLA hazardous substances; and volume, if known):

Direct (e.g. pipe, outfall, spill):

According to a New Jersey Department of Health Field Information Report from 1971, a 12" pipe of unknown origin was discharging from WPB into the Passaic River. The report states that the pipe was located near an unspecified bridge. According to the laboratory results section of this report, the following were detected.

- Suspended Solids = 5
- Chloride = 72
- Total Solids = 392
- COD's = negative

(ABK001030 at Tab 61)

According to a New Jersey Department of Health Field Information Report from 1972, a 10" inch pipe of unknown origin was discharging from WPB via the bulkhead into the Passaic River. The report notes that the "entire area was steaming from hot water." According to the laboratory results section of this report, the following were detected.

- Suspended Solids = 214
- Chloride = 40
- Ash = 104
- Total Solids = 366
- COD's = 47

(ABK001032 at Tab 62)

It is not known at this time if the above two pipes – (10-inch pipe versus 12-inch pipe) – are indeed two different pipes or if the two pipes are, in fact, the same pipe.

However, according to the U.S. Department of the Interior, Federal Water Pollution Control Administration ("FWPCA"), there is a 12-inch outfall with gate located at WPB Clifton Mills. According to a November 1969 report entitled, "Direct Waste Discharges – Passaic River" the

following characterization was made of wastewater discharged from the 12-inch outfall at WPB, designated as "Map Identification Number 57".

- BOD = 2.8
- Total Suspended Solids = 106

(ABK001101 at Tab 74)

Historical PVSC documents reveal that oily industrial wastes and paper pulp wastes have discharged from the Site to the Passaic River via the storm and sanitary sewers. The following discharge occurrences have been documented by state and local environmental inspectors.

1926 –	Clifton Paper was polluting the Passaic River by bypassing the Ackerman Avenue sewer and discharging directly to the river. The reason given for this action was that the sewer included a leaky cast iron pipe attached to the Ackerman Ave. Bridge over the Dundee Canal. (ABK001026 at Tab 59, ABK001028 at Tab 60)
1928 –	PVSC reported that the sewer on Ackerman Avenue over the Dundee Canal had a serious leak resulting from old joints. PVSC reports that when Clifton Paper mills (allegedly later known as WPB) pumps steadily, the manhole begins to spout. It is further noted that ceasing pumping at the facility to reduce manhole spouting results in waste escaping to the Passaic River. (ABK001000 at Tab 48, ABK001006 at Tab 48)
1937-	Clifton Paper Board was dumping paper pulp rags on Passaic River bank for years and was six feet high from river level. (ABK001010 at Tab 49)
2/24/47-	PVSC reported Clifton Paper Board was discharging industrial waste to the river consisting of paper pulp due to a breakdown of a main pump. (ABK001014 at Tab 50)
5/15/47-	PVSC reported that Clifton Paper Board was discharging industrial waste to the river through partially opened valve. (ABK001015 at Tab 51)
7/7/47 –	PVSC reports that an oily industrial waste liquid was discharging into Passaic River through a valve used for emergency by-passing. (ABK001016 at Tab 52)
9/15/47-	PVSC reported that Clifton Paper Board was discharging industrial waste to the river due to an electrical breakdown of main pump. (ABK001017at Tab 53)
1/18/48 –	PVSC reported that pulp waste and sewage discharging into Passaic River through by-pass valve that was slightly open. (ABK001018 at Tab 54)

10/3/49-	PVSC reported that a flood in the beater room at Clifton Paper Board caused wastes to be discharged to the river. It was reported that "the waste was diverted to their by-pass and into Passaic River." (ABK001019 at Tab 55)
3/2/56-	During inspection, PVSC inspectors noticed oil and water discharged to the river from Clifton Paper Board via 16 inch pipe. (ABK001020 at Tab 56)
12/18/56-	PVSC reported that an oil slick flowed to the river via 14-inch pipe from Clifton Paper Board because a wooden wedge was placed in flap valve to keep it open. (ABK001021 at Tab 57)
January 15 – 17, 1969 -	PVSC reports that a broken joint in WPB 20" pressure sewer led to seepage from the sidewalk. The necessary repairs were made, thus halting the pollution. (ABK000354-355 at Tab 25)
August 8 to 28, 1969 -	PVSC reported that a 20" steel pipe line at WPB facility which carries waste to PVSC's main trunk line was found to be leaking and thus, causing waste to reach the Passaic River. (ABK00339-340 at Tab 19)
December 29, 1969 -	PVSC reported that a broken sanitary line at the WPB site allowed industrial waste to reach a nearby-catch basin prior to discharging into the Passaic River. (ABK000340 at Tab 19)
July 24, 1973 -	PVSC reported that a break occurred in the sanitary line on-site, resulting in waste flowing over the sidewalk and 0into the Passaic River. The discharge ceased on 7/25/73 when the plant was shut down, and the line was repaired on 7/26/73. (ABK000017 at Tab 6)
9/8/76 to 8/31/77 -	Whippany Paper Board was discharging boiler blowdown from outlet 004 to Dundee Canal, which flowed into the Passaic River. Outlet 002 was discharging filter backwash at this time. PVSC notes that the flow from outlet 002 (filter backwash) is "polluting for approximately 10 minutes starting 9:00am and 1:00am each day." (ABK000004 at Tab 1-ABK00005 at Tab 1, ABK000334 at Tab 17, ABK000336 at Tab 18, ABK000344-345 at Tab 21, ABK000347 at Tab 22, ABK000351-352 at Tab 24, ABK000357-358 at Tab 26, ABK001023 at Tab 58, ABK001069 at Tab 65)
February 6 and 7, 1977 -	PVSC reported that a break in the plant's main sewer line led to eventual discharge of waste into the Dundee Canal. (ABK000349 at Tab 23)

June 1, 1977 - PVSC reported that a ¾" cleanout cap came off the 20" company force main, thus discharging sewage into the Passaic River. (ABK000342 at Tab 20)

1978 – PVSC lists WPB on a list of "Pollution violations to the Passaic River or its tributaries" during 1978. (ABK000007 at Tab 2)

Dioxin associated compounds were detected in one or more samples of the sediments of the Dundee Canal directly adjacent to the WPB Site. It was reported that 17 dioxin compounds were detected the subject sediment samples. Concentrations of all dioxins ranged up to 22,590 ppt. Concentrations of 2,3,7,8 TCDD ranged up to 69.8 ppt. (ABK001106-1148 at Tab 75)

Sanitary Sewer (provide name and location of CSO; details regarding CSO overflows and dates):

The City of Clifton sanitary sewer line runs south on Ackerman Avenue, then east on Randolph Avenue. The line then runs south on Highland Avenue before it empties into the PVSC Trunk Line (ABK001149)

Storm Sewer (provide name and location of CSO; details regarding CSO overflows and dates):

Information not available at this time.

Runoff:

The WPB Site is elevated on the Dundee Canal side, thus stormwater runoff is known to discharge to the Passaic River and the Dundee Canal.

Information developed to date indicates that Site soils and groundwater are contaminated with VOCs, BNAs, low levels of PCBs, PHC's, and heavy metals.

(ABK000196-202 at Tab 8, ABK000214-215 at Tab 10, ABK000221-222 at Tab 11, ABK000228-236 at Tab 13, ABK000241-245 at Tab 14, ABK000249-251 at Tab 14, ABK000252-253 at Tab 15, ABK000462-463 at Tab 34, ABK000471 at Tab 67, ABK000474-475 at Tab 35, ABK000519-531 at Tab 36, ABK000605 -613 at Tab 43, ABK000626-635 at Tab 44, ABK000667-865 at Tab 45, ABK000973-974 at Tab 46)

A final report summarizing all remedial activities completed to date discusses remedial work completed related to (1) drum storage area and (2) 160,000 gallon above ground fuel oil storage tank. Contaminated soil in aforementioned areas was excavated and clean fill inserted (ABK000195 at Tab 8, ABK000196 at Tab 8, ABK000201 at Tab 8).

NJDEP reports that the soil in the drum storage area on-site is contaminated with lead, copper, mercury, and PHC's. In addition, an unidentified pit 4 inches in diameter was noted to have been filled with an unidentified oily substance. NJDEP also noted that the transformer area on-

site is contaminated with PCBs. Soil underneath both on-site USTs and above ground fuel oil tanks is noted to have been contaminated with fuel oil and PHCs (ABK000415-416 at Tab 29, ABK000434-436 at Tab 30).

Groundwater:

Information developed to date indicates that Site soils and groundwater are contaminated with VOCs, BNAs, low levels of PCBs, PHCs, and heavy metals.

(ABK000192 at Tab 8, ABK000196-202 at Tab 8, ABK000214-215 at Tab 10, ABK000221-222 at Tab 11, ABK000228-236 at Tab 13, ABK000241-245 at Tab 14, ABK000249-251 at Tab 14, ABK000252-253 at Tab 15, ABK000462-463 at Tab 34, ABK000471 at Tab 67, ABK000474-475 at Tab 35, ABK000519-531 at Tab 36, ABK000605 -613 at Tab 43, ABK000626-635 at Tab 44, ABK000667-865 at Tab 45, ABK000973-974 at Tab 46)

POTENTIAL NEXUS TO LOWER PASSAIC RIVER STUDY AREA (describe in detail; cite to supporting documentation; list CERCLA hazardous substances; and volume, if known):

Direct (e.g. pipe, outfall, spill):

See above discussion for documented direct discharges to the Passaic River from WPB.

Sanitary Sewer (provide name and location of CSO; details regarding CSO overflows and dates):

See above discussion for documented sanitary sewer flows from WPB.

Storm Sewer (provide name and location of CSO; details regarding CSO overflows and dates):

Information not available at this time.

Runoff:

See above discussion for documented runoff discharges from WPB.

Groundwater:

See above discussion for documented groundwater discharges from WPB.

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VOLUME I - WHIPPANY PAPER BOARD

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I	14	1989	22-Mar	Letter from Hazardous Engineering Consultants to the NJDEP re: Recycled Paper Board of Clifton and results of groundwater sampling
I	15	1990	27-Aug	Letter from Hazardous Engineering Consultants to the NJDEP re: Whippany Paper Board Company and progress report on cleanup activities
I	16	1987	17-Jul	NJDEP ECRA General Information Submission re: Whippany Paper Board Company
I	17	1977	20-May	Passaic Valley Sewerage Commissioners Bi-Monthly Report for March and April 1977
I	18	1977	25-Mar	Passaic Valley Sewerage Commissioners Bi-Monthly Report for January and February 1977
I	19	1970	31-Mar	Passaic Valley Sewerage Commissioners report on Pollutions corrected during 1969
I	20	1977	Feb&June	Passaic Valley Sewerage Commissioners report of violations during February and June of 1977 at Whippany Paper Board
I	21	1977	9-Dec	Passaic Valley Sewerage Commissioners Bi-Monthly report for September and October 1977
I	22	1977	27-Jul	Passaic Valley Sewerage Commissioners Bi-Monthly report for May and June 1977
I	23	1977	25-Mar	Passaic Valley Sewerage Commissioners Bi-Monthly Report for January and February 1977
I	24	1976	29-Nov	Passaic Valley Sewerage Commissioners Monthly Report for October 1976
I	25	1969	31-Jan	Passaic Valley Sewerage Commissioners report on Pollutions corrected during 1968
I	26	1976	18-Oct	Passaic Valley Sewerage Commissioners Monthly Report for August and September 1976
I	27	2006	10-Mar	New Jersey State Business Gateway Service re: status report for Eden Wood Corporation
I	28	1997	11-Sep	Decision and Order of the Department of Energy
I	29			NJDEP Environmental Concern Tracking Sheet

Binder No.	Tab No.	Year	Day and Month	Description
I	30	1986	24-Feb	NJDEP memorandum re: review of Whippany Paper Board Sampling Plan 7/25/1985
I	31	1985	March	NJDEP ECRA General Information Submission re: Whippany Paper Board Company
I	32	1985	25-Mar	NJDEP Application for ECRA review - Site Evaluation Submission
I	33	1985	1-Jul	Letter from Hazardous Engineering Consultants re: Whippany Paper Board Company
I	34	1985	23-Aug	Letter from NJDEP to Whippany Paper Board re: ECRA complete
I	35	1986	21-Jan	Letter from NJDEP to Whippany Paper Board re: Cleanup plan
I	36	1986	5-May	Laboratory Analysis Report for Whippany Paper Board soil samples
I	37	1986	26-Aug	Letter from NJDEP to Whippany Paper Board re: sampling results and Cleanup Plan
I	38			Application for ACO re: Whippany Paper Board Company
I	39	1996	16-Dec	Administrative Consent Order for Whippany Paper Board
I	40	1987	29-Sep	Letter from counsel to Bureau of Applicability and Compliance re: Whippany Paper Board Company
I	41	1987	9-Oct	Letter from counsel to Bureau of Applicability and Compliance re: Whippany Paper Board Company
I	42	1988	26-Oct	Letter from Hazardous Engineering Consultants to NJDEP re: Recycled Paper Board former Whippany Paper Board
I	43			Results of EPA Priority Pollutant Volatile Compounds
I	44	1989	11-Jan	York Laboratories results of sample analysis
I	45	1990	17-Jul	Analytical Test Results for Whippany Paper Board. Prepared by Hazardous Waste Engineering Consultants
I	46	1990	24-Oct	Letter from Hazardous Engineering Consultants to NJDEP re: Whippany Paper Board progress report
I	47	1990	13-Dec	Letter from Hazardous Engineering Consultants to NJDEP re: Whippany Paper Board progress report

Binder No.	Tab No.	Year	Day and Month	Description
I	48	1928	30-Apr	Report to the Chief Engineer of Passaic Valley Sewerage Commission re: sources of pollution
I	49	1937	8-Sep	Report from the Chief Engineer to the Passaic Valley Sewerage Commission re: report listing all municipal and private dumps bordering along the Passaic River within the Passaic Valley
I	50	1947	24-Mar	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during February 1947
I	51	1947	23-Jun	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during May 1947
I	52	1947	25-Aug	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during June and July 1947
I	53	1947	24-Oct	Report to the Passaic Valley Sewerage Commissioners re: stream contamination during September 1947
I	54	1948		Report to the Passaic Valley Sewerage Commissioners re: stream contamination during January 1948
I	55			Report to the Passaic Valley Sewerage Commissioners re: stream contamination during September and October
I	56	1956	Feb/Mar	PVSC Weekly Summary of Inspections by Inspectors - week of February 27 to March 2, 1956
I	57	1956	December	PVSC Weekly Summary of Inspections by Inspectors - week of December 17 to December 21, 1956
I	58	1977	21-Sep	Passaic Valley Sewerage Commissioners Bi-Monthly Report for July and August 1977
I	59	1926	4-Aug	Memo from R.C.Smith to Ralph Van Duyne re: Firms who are lagging or delinquent in eliminating their pollution
I	60	1926	17-Mar	Memo to Mr. J. Ralph Van Duyne Chief Engineer re: Clifton Paper Mills
I	61	1971	27-Jan	NJDEP Stream or Wastewater Analysis field information
I	62	1972	4-Apr	NJDEP Stream or Wastewater Analysis field information
I	63	1985	19-Mar	Online documents re: Sale of Paper Mill
I	64	1990	24-Jul	Online documents re: Recycling reopens Clifton Mill
I	65	1976	30-Sep	Letter from Whippany Paper Board to Passaic Valley Sewerage Commissioners re: discharges

Binder No.	Tab No.	Year	Day and Month	Description
I	66			Newspaper article from Herald News re: Plan revealed for Whippany Plant
I	67	1985	12-Dec	Letter from Hazardous Engineering Consultants to NJDEP re: Whippany Paper Board progress report
I	68			NJDEP letter to Whippany Paper Board re: Sampling plan
I	69	1935		Sanborn Map
I	70	1951		Sanborn Map
I	71	2000	12-Jul	On-Line document re: Eden Wood Realty
I	72	2000	10-Dec	On-Line document re: Neighbors fear loss of woods to planned warehouse
I	73	1988	19-Jul	Certificate of Amendment to the Certificate of Incorporation of Whippany Paper Board Company
I	74	1969	November	Report On The Quality Of The Interstate Waters Of The Lower Passaic River And Upper And Lower Bays Of New York Harber
I	75	1995	September	*Remedial Investigation Report Route 21 Freeway Extension* Prepared by Roy F. Weston
I	76	1945	March	Sewer Map for City of Clifton

VOLUME II - SPENCER KELLOGG

PRP DATA EXTRACTION FORM

INDEX OF EVIDENCE

Binder No.	Tab No.	Year	Day and Month	Description
II	1	1979	11-Apr	Spencer Kellogg TEXTRON Correspondence
II	2	1980	28-Jan	Spencer Kellogg TEXTRON Correspondence and
II	3	1982	7-Dec	Spencer Kellogg TEXTRON Correspondence

Binder No.	Tab No.	Year	Day and Month	Description
II	4	1985	21-Jun	TEXTRON Correspondence
II	5	1987	March	ECRA Sampling Plan Results
II	6	1990	January	ECRA Cleanup Plan
II	7	1997	14-Feb	TEXTRON'S Response to Request for Information
II	8	1985	23-Aug	ECRA Site Evaluation Submission
II	9	1985	23-Aug	ECRA Case Appendix 5 - Description of Spill or
II	10	1982	25-Jun	Spencer Kellogg TEXTRON Correspondence
II	11	1982	21-Apr	Spencer Kellogg TEXTRON Correspondence
II	12	1991	16-Dec	ECRA Case Progress Report
II	13	1978	18-Dec	Deed
II	14	1987	March	Presentation of the ECRA Sampling Plan Results
II	15	1988	June	Presentation of the Phase II ECRA Sampling Plan
II	16	1990	October	Presentation of Additional ECRA Sampling Results and
II	17	2006	11-Apr	Hoover's Inc. Company Records Report - Textron, Inc.

Binder No.	Tab No.	Year	Day and Month	Description
II	18	2006	20-Apr	Textron, Inc. Web Site Information

VOLUME III - SB PENICK

PRP DATA EXTRACTION FORM

INDEX OF EVIDENCE

Binder No.	Tab No.	Year	Day and Month	Description
III	1	1971		PVSC Annual Report
III	2			PVSC Annual Report
III	3	1974 1940 - 1941		The Industrial Directory of New Jersey
III	4	1960 - 1961		New Jersey Industrial Directory
III	5	1980		New Jersey State Industrial Directory
III	6	1956		PVSC Weekly Resume - Summary of Inspections
III	7	2005	1-Mar	D & B Comprehensive Report
III	8	2005		Penick Corporation Online - website
III	9	2004	20-Jul	Federal Register
III	10	2005	1-Mar	Notice of Registration
III	11	2005	1-Mar	Penick Corporation Online - website
III	12	1988	9-Feb	Copy of article from The Record re: Sale of Penick to Mayfair Chemical

Binder No.	Tab No.	Year	Day and Month	Description
III	13	1997	26-Nov	Copy of article from The Record re: Shops planned at toxic site
III	14	1997	26-Nov	Copy of article from The Record re: Toluene spill
III	15	1992	2-Oct	Copy of article from The Record re: firm sues over site cleanup cost
III	16	1988	8-Jan	Copy of article from The Record re: Bug Lab restrictions tightened
III	17	1987	10-Jun	Copy of article from The Record re: French firm moves base to Bergen
III	18	1985	20-Sep	Copy of article from The Record re: Opinion - Letters - Natural Pesticides. Attached with this article is an online research document obtained from the website
III	19	1978	July	PVSC Weekly Summary of Inspections by Inspectors
III	20	1978	Feb	Weekly report by PVSC 2/21-2/24/1978
III	21	1978	Feb	Weekly report by PVSC 2/11-2/17/1978
III	22	1977	9-Dec	PVSC Bi-Monthly report for Sept & Oct. 1977
III	23	1976	18-Oct	PVSC Bi-Monthly report for August & September 1976
III	24	1947	Mar	PVSC Weekly Summary of Inspections by Inspectors
III	25	1947	Apr	PVSC Weekly Summary of Inspections by Inspectors
III	26	1948	May	PVSC Weekly Summary of Inspections by Inspectors
III	27	1956	30-Apr	PVSC Weekly Summary of Inspections by Inspectors
III	28	1949		American Chemical Industry - Chemical Companies published by D. Van Nostrand Co., Inc.
III	29	1965		Chemical Guide to the United States
III	30	1970		New Jersey State Industrial Directory

Binder No.	Tab No.	Year	Day and Month	Description
III	31	1969		New Jersey State Industrial Directory
III	32	1973		New Jersey State Industrial Directory
III	33	1984		MacRae's Industrial Directory of New Jersey
III	34	1941	Dec	Thomas' Register
III	35	1946		Thomas' Register
III	36	1959		United States Tariff Commission publication list
III	37	1960		United States Tariff Commission publication list
III	38	1961		United States Tariff Commission publication list
III	39	1967		United States Tariff Commission publication list
III	40	1963		United States Tariff Commission publication list
III	41	1964		United States Tariff Commission publication list
III	42	1968		United States Tariff Commission publication list
III	43	1969		United States Tariff Commission publication list
III	44	1970		United States Tariff Commission publication list
III	45	1971		United States Tariff Commission publication list
III	46	1956	15-Sep	Chemical Week
III	47	1954	18-Sep	Chemical Week - Buyer's Guide
III	48	1953	19-Sep	Chemical Week - Buyer's Guide

Binder No.	Tab No.	Year	Day and Month	Description
III	49	1960	24-Sep	Chemical Week - Buyer's Guide - 1961
III	50	1961	Sep	Chemical Week - Buyer's Guide - 1962
III	51	1962	29-Sep	Chemical Week - Buyer's Guide - 1963
III	52	1964	17-Oct	Chemical Week - Buyer's Guide - 1965
III	53	1965	16-Oct	Chemical Week - Buyer's Guide - 1966
III	54	1979		Pesticide Handbook - Entoma 1979 - 1980
III	55	2006		LexisNexis On-line database research: Mergers and Acquisitions - LexisNexis Corporate Affiliations.
III	56	2006	16-Mar	Compliance Evaluation Summary- CPC International
III	57	1990	4-Sep	Administrative Consent Order and Notice of Civil Administrative Penalty Assessment
III	58	1990	16-May	Memo re: Chronology of RCRA Facility at Lyndhurst
III	59	undated		Document obtained from NJDEP entitled: Penick Corporation Regulatory Compliance Status
III	60	1999	2-Sep	Letter re: Remediation Agreement in the matter of Penco Lyndhurst
III	61	1999	2-Jul	Memo re: Penick Corporation and the closure of two UST's
III	62	1990	9-Nov	Letter re: Penick Corporation- Sale of Property and Business Assets
III	63	1998	20-Mar	NJDEP Memo re: Penco of Lyndhurst- Site Visit follow-up
III	64	1998	13-Feb	NJDEP Memo re: Site Remediation Progress Report
III	65	1997	6-Aug	ISRA- Report of Inspection
III	66	1996	25-Nov	NJDEP Memo re: Penick Corp sampling event

Binder No.	Tab No.	Year	Day and Month	Description
III	67	1988	6-Jul	NJDEP Memo re: Penco of Lyndhurst and Penick Corp - inspection of facility
III	68	1984	25-Apr	USEPA Potential Hazardous Waste Site - Preliminary Assessment - Penick Corporation
III	69	1990	6-Mar	Memo from NJDEP File re: UST's Summary and Past/ Current use
III	70	1993	1-Mar	Surface Water Quality Study of the Passaic River at Lyndhurst- Former Penick Corporation Facility by Langan Engineering
III	71	1992	3-Mar	Letter and supporting documents from Langan Engineering to NJDEP re: Former Penick site- Supplemental Information for Water Quality Analysis Plan Deficiency
III	72	2000	15-Aug	Letter and report from NJDEP re: Compliance Evaluation and Assistance Inspection
III	73	1994	29-Dec	Permit Number- NJ0081248 - Discharge to Passaic River via storm sewer
III	74	1995	10-Jan	Public Notice re: Penco of Lyndhurst and NJPDES modification concerning their discharge of 30 gallons per minute of groundwater to an on-site treatment system
III	75	1995	10-Jan	State of NJ Fact Sheet for a Draft NJPDES Permit Modification to Discharge to the Surface Waters of New Jersey
III	76	1999	25-Aug	NJPDES Compliance Evaluation Inspection Report
III	77	1999	15-Dec	NJDEP Memo re: Administrative Expiration of NJPDES/ DSW Permit No. NJ0081248
III	78	1985	7-Feb	Environmental Assessment of Contamination Associated with Penick Corporation. Prepared by Versar Inc.
III	79	1984	30-Apr	Letter from Penick Corp to NJDEP re: Initial ECRA Notice of Requirements
III	80	1980	6-Jun	Letter from Penick Corp. re: Toluol "spill" at Penick Lyndhurst plant
III	81	1991		NJDEP Community Right to Know Survey
III	82	1987	13-Nov	Report Sampling Plan Results Penick Corp. prepared by Dames & Moore
III	83	1995	8-Dec	Remedial Action Report South Drainage Ditch, former Penick Corp., prepared by Langan Engineering.
III	84	1991	11-Oct	Ground Water Monitoring Report July 1991 Sampling Event Former Penick Corporation Facility prepared by Langan Engineering

Binder No.	Tab No.	Year	Day and Month	Description
III	85	1991	14-May	Results of the Supplemental Soil Characterization Program Former Penick Corp. Facility, prepared by Langan Environmental Services
III	86	1990	2-Jul	Cleanup Plan Former Penick Corp. Facility, prepared by Langan Environmental Services
III	87	1993	6-Jan	NJDEP Bureau of Emergency Response Investigation report
III	88	1995	12-Apr	Letter from CPC to NJDEP re: Penick Site and Declaration of Environmental (DER)
III	89	1990	23-Oct	Penco of Lyndhurst Progress Report re: clean-up of South Drainage Ditch
III	90	1990	9-Sep	From NJDEP Files: Tentative clean-up plan of the South Drainage Ditch
III	91	1982	10-Feb	Letter from New England Pollution Control to Penick Ind. Re: Progress Report # 1 for Ground water investigation
III	92	1989	11-Apr	Letter from Dames & Moore to NJDEP re: Soil sampling plan addendum at Penick Lyndhurst site
III	93	1997	7-May	Letter from CPC to NJDEP re: Penick Site and executed certification for the renewal of the Self Guarantee
III	94	1994	1-Jan	Affidavit of Seymour A. Lubetkin, former Chief Engineer at the Passaic Valley Sewerage Commissioners (PVSC)
III	95	1991	12-Jul	Letter from Lord Day & Lord to NJDEP re: Admin Order & Civil Penalty Assessment for Penick Corp.

VOLUME IV - HARRISON SUPPLY

PRP DATA EXTRACTION FORM

INDEX OF EVIDENCE

Binder No.	Tab No.	Year	Day and Month	Description
IV	1	1972	May	United States District Court, District of NJ documents related to case# 266-71
IV	2	2006	25-Jan	Dun & Bradstreet Comprehensive Report re: Phillips Companies
IV	3	2006	24-Jan	Online information from the Phillips Companies website

Binder No.	Tab No.	Year	Day and Month	Description
IV	4	2000	20-Dec	Letter re: LNA Application
IV	5	2000	27-Nov	Letter re: ISRA Non- Applicability Affidavit, referenced documents attached.
IV	6	1993	15-Apr	Letter re: Harrison Supply Company w/ Blue Circle Raia Inc.
IV	7	1992	unknown	Chemical Inventory
IV	8	1993	18-Oct	Letter re: Applications for the NJDEP General Stormwater Permits
IV	9	2004	21-Jan	Letter re: CPM Concrete Products Management
IV	10	2001	30-Aug	Letter re: Stormwater Discharge Modification
IV	11	1995	28-Nov	Letter re: Authorization to Discharge Stormwater
IV	12	2006	26-Apr	Dun & Bradstreet Comprehensive Report re: Harrison Supply Company
IV	13	2006	26-Apr	Dun & Bradstreet Comprehensive Report re: Phillips Concrete Inc.
IV	14	circa 1975-76	unknown	Document retrieved from Seymour Lubetkin's notebook titled "Below Dundee Dam - Passaic River Discharge Outlets"
IV	15	1976	unknown	Overflow Analysis Report to PVSC re: Passaic River Overflows

ANNUAL REPORT

by

Chief Engineer

S. A. LUBETKIN

to the

PASSAIC VALLEY

SEWERAGE COMMISSIONERS

FOR OPERATIONS DURING

THE YEAR

1976

ABK000003

946010031

Violation - Scher Brothers (con't.)

Inspector Costello reported that during the heavy rain on July 23, 1976 he saw no foam in the area.

On August 19 Mr. Potash wrote to Mr. D'Ascensio and reviewed what additional work he intended to do to eliminate the violation. He was ready to have the Contractor, Mr. Robert DeVito, dike the rear platform to contain any spills and to line the pit area under the storage tanks with concrete to prevent seepage. He also wished to install an emergency drain line from the corner of the pit through a locked shut off valve to the sanitary sewer to periodically drain the pit of wash water. Next he intended to install piping from the storage tank area to the building to eliminate the use of truck hose as much as possible. Finally the entire area would be seeded.

Although the impregnated ground had been removed and frequent inspections had shown that no ground seepage was reaching the storm sewer, the potential for a pollution still existed and therefore the violation will be carried until the the programs, as outlined by Scher Brothers had been carried out. Mr. Potash reported to Inspector Costello that, although he received a verbal commitment from Mr. DeVito that construction would begin on September 23, no action had been taken and he was considering hiring a new contractor.

Mr. Potash informed Inspector Costello on October 1 that he had received permission from the City of Clifton to install a drain line from the enclosed pit area into the sanitary sewer. By October 22 two bids had been received and, as of October 31, Scher Brothers was awaiting a third bid before proceeding. However, Mr. Potash informed Inspector Costello that he intended to install 2" aluminim piping from the warehouse wall to the pit area to replace the flexible hose now in use. This was to have been done in December, but the severe weather conditions prevented the installation.

ABK000004

Violation - Whippany Paper Board Company, Inc.
1 Ackerman Avenue, Clifton, N.J.
September 8 - December 31, 1976 (T. Costello)

PVSC routinely receives copies of Draft NPDES Permits from USEPA on companies that discharge to the Passaic River and its tributaries within the PVSC district. Inspectors investigate the plants and sample the various discharges to insure they are in compliance with PVSC regulations and the NPDES permit requirement. PVSC received such a permit on Whippany Paper

KLL005219

946010032

Violation - Whippany Paper Board Company (con't.)

Board Company and two of the five outlets samples on September 8, 1976 were considered to have values above which PVSC considered acceptable for discharge into the river. They serve outlet #002, filter backwash, and outlet #004 boiler blowdown. Mr. Goldberg and Mr. D'Ascensio met with Mr. Elliott Collier, Building Superintendent, on September 21 and reviewed possible alternatives to eliminate the violations. Mr. Collier was advised that these discharges could either be connected to the sanitary sewer or treated prior to dischage in order to reduce the suspended solids and turbidity of the filter backwash discharge (#002) and to reduce the suspended solids, turbidity and pH of the boiler blowdown (#004). Mr. D'Ascensio confirmed this in writing to Mr. Collier on September 24 and at his request forwarded a copy ot Mr. Robert Shaw, Assistant to the President on September 27. Mr. Shaw replied on September 30 and stated that Whippany Paper intended to repipe the discharges into the sanitary sewer.

On October 6 Mr. Collier informed Inspector Costello that he had ordered the piping necessary to repipe the boiler blowdown to the sanitary sewer. Mr. Andrew Grier, Chief Engineer, informed Inspector Costello on October 27 that he expected delivery of the material on November 2 and that the work would take about three months to complete, also requiring a plant shutdown of about three days.

By November 12 fifty feet of 4" schedule 90 steel pipe had been fabricated and installed. Approximately 50 more feet of line had to be installed in order to complete the job.

Work was temporarily halted due to holiday shutdowns.

Violation - White Metal Products, 220 Goffle Road, Hawthorne, N. J.
December 3-31, 1976 (W. Fiore)

While making routine inspections in Hawthorne on December 3, 1976, Sup't. Cupo and Inspector Fiore observed a slight amount of oil in Goffle Brook. They traced it to White Metal Products and to a discharge from a ground water sump pump located in the basement. Drums of lubricating oil were stored in this room, and occasionally oil was spilled when a transfer was made from the drums to the oil cans. The oil, finding its way into the sump, was discharged with the ground water onto a driveway at the rear of the property, where it then flowed into a catch basin on Goffle Road, and thence into Goffle Brook. The pump operated for about 15-20 seconds, every 10 to 15 minutes.

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INTERSTATE SANITATION
COMMISSION

ANNUAL REPORT

OF THE

PASSAIC VALLEY

SEWERAGE COMMISSIONERS

FOR THE YEAR

1978

ABK000006

946010035

pollution violations to the Passaic River or its tributaries in the Commissioners district and their eliminations during 1978.

Armour Company, 222 Ellison St., Paterson
Biocraft Labs Inc., 12 Industrial Way, Waldwick
Chestnut St. Storm Sewer, Belleville
Curtis Wright, Passaic St., Woodridge (this company violated 3 times on 3 different occasions this year)
D & J Trucking and Waste, Ave P, Newark
Dumont Co., 750 Bloomfield Ave., Clifton
E.C.U. Realty Delarich Corp., 112 River, Clifton
Manhattan Electric Cable, 225 Passaic St., Passaic
Motor Freight Express, 315 Colfax Ave., Clifton
Pantasote, 26 Jefferson St., Passaic (this company violated 3 times on 3 different occasions this year)
S. B. Penick, 550 New York Ave., Lyndhurst
Harmon Colors Corp., Hawthorne
A T & P Processors, 1 Van Houton St., Paterson
Fabricolor, Van Houten St., Paterson
Scher Brothers, 1 Styertown Rd., Clifton
City of Clifton, Ploch Brook
City of Passaic, McDonald Brook
City of Clifton, Rt. 20 between 6th and 8th sts.
Beth Israel Hospital, 70 Parker Ave., Passaic
AGFA-Gevaert, 150 Hopper Ave, Waldwick
Harmon Colors, Fish Kill - Molly Anns Brook
Getty Station, High and Alden Sts. Orange
Givaudan Corp., drum runoff - 125 Delawanna Ave. Clifton
Sealed Air, 19-01 State Hwy. 208, Fair Lawn
Kelway Inc., 1 Madison St., E. Rutherford
Minwax, 72 Oak St., Clifton - mineral spirits spill
Town of Belleville, Chestnut St. Storm Sewer
J.W. Pierson Co., 89 Dodd St., East Orange
City of Passaic - McDonald Brook (has been on violation twice on 2 different occasions this year)
Try It, 294 Lakeview Ave., Clifton
Record Ambulance, 191 S. Essex Av., Orange
City of Clifton, 8 Brighton Av. Bloomfield
Givaudan Corp., River Rd., Clifton
179 Goffle Road, Hawthorne - oil spill
Henderson Brook at Pollitt Dr., Industrial Park
New Arden Chemical Co., 21st Ave., Paterson
Belleville Industrial - 681 Main St. Belleville (this company violated 5 times on 5 different occasions this year)
Peerless Tube, 56-76 Locust Ave, Bloomfield
Mr. Sonny Leone, 175 Rock Rd. Glen Rock
Village of Ridgewood, Ridgewood, N.J.
Saddle River, rear Two Guys
Inmont Chemical Corp. 150 Wagaraw Rd. Clifton
Standard Tallow, 61 Blanchard St. Newark
Seton Leather Co., 849 Broadway, Newark
Pauls Friendly Service, 214 Main Av. Clifton
Gregs Auto Emporium, 139 Main St. Lodi
Mallinckrodt, Main St. Lodi
Atlantic-Richfield, Main Fire Headquarters, Belleville
Whippany Paperboard, 1 Ackerman Ave. Clifton
Interstate Dyeing and Finishing, 35 8th St. Passaic

THE
INDUSTRIAL DIRECTORY
OF NEW JERSEY

1940 - 41

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JAMES A. T. GRIBBIN
Deputy Commissioner of Labor
Chief, Bureau of Statistics and Records

ABK000008

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PASSAIC

Passaic County was created from portions of Bergen and Essex Counties, 1837, and consisted of the Townships of Aquackanonk, Manchester, Paterson, Pompton and West Milford.

County Seat ..... Paterson

Population—1910, 215,902; 1920, 259,174; 1930, 302,129; 1940 309,270

Area (square miles), 198.65; Land surface (acres), 125,488; Water surface (acres), 1,646; Total surface (acres) 127,134

Net valuation of real and personal property taxable—1940 ..... $356,732,908

ALBION PLACE (part of Clifton City).
Fire insurance rating C.

ALLWOOD (part of Clifton City).
Fire insurance rating C.
Industries: Employees
Atlantic Casting & Engineering Corp., non-ferrous precision castings 51
De Mattia Machine & Tool Co., injection molding equipment 51
Haberland Mfg. Co., textile & paper sizings, cold water soluble gum, vegetable glues 47
Jelleme, John, millwork 4
Mercer Engineering Wks., Inc., material handling equipment, platform trucks, conveyors & monorails 24
Nelson, N. P., Iron Wks., Inc., bucket loaders, snow loaders, belt conveyors, dump bodies 28

ATHENIA (part of Clifton City).
Fire insurance rating C.

BLOOMINGDALE (Boro). Pop (1930) 2,543. Erie R. R. Net valuation (1940) $1,577,426. Tax rate $5.11. One bank.
Fire insurance rating F.
Industries: Employees
Public Overall Co., Inc. 28

BOTANY (part of Clifton and Passaic Cities).

CHARLOTTESBURG (part of West Milford Twp).

CLIFTON (City). Is situated in the greater New York metropolitan area, 12 miles northwest of New York City. By train (Erie and Delaware, Lackawanna and Western R. R.), bus, or automobile, it is less than an hour's travel from Broadway and 42nd Street. It has rail, motor truck and shipping facilities. It has fine improved highways, being located on three State Highways, namely, Routes S-3, 4, and 6 connecting with all important points. In twenty years Clifton's population has almost doubled and is now 48,840. Its great area, 11¾ square miles (third largest in the state), still holds ample room for development and expansion. It is one of the few cities in the otherwise congested East that includes agricultural along with manufacturing, wholesale and retail business among its leading enterprises. It has three banks. Clifton has 138 miles of residential streets. It is an ideal place in which to live. Clifton's ratables in 1940 were $49,068,661, an increase of $929,340 over 1939. The tax rate is $4.77. Fire insurance rating C.
Industries: Employees
Air Cruisers, Inc., aircraft, inflatable boats & air cushions 85
Aircraft Engineering Products, Inc., light airplane parts 4
American Clothing Co., men's coats 325
American Colortype Co., printing 300
American Trouser Co., Inc., pants 91
Athenia Steel Co. (Div. National-Standard Co.), high carbon spring steel 270
Bagatti, J. F., embroideries 7
Bailey-King Press, Inc. 5
Bartman & Bixer, Inc., curtains 225
Belfi Bottling Co., Inc., carbonated beverages 3
Bernstein Bros., Vests, Inc., men's vests 115
Bright Star Battery Co., flashlight, telephone and radio dry cells, flashlight cases, acetate moulding 311
Brook Chemical Co., textile chemicals & dyes 7
Cel-O-Lite, Inc., lamp shades 20
Clifton Bottling Wks., carbonated beverages 12
Clifton Cabinet Co., millwork 1
Clifton Laundry Co., Inc. 28
Clifton Paper Board Co., Inc. 189
Clifton Printing Co., Inc., newspaper publ & prtg 8
Clifton Wire Rolling Co., reed wire 2
Cluff, George A., & Sons, ribbons 4
Colony Furniture Co., beedroom furniture 19
Conveyor Engineering & Supplies Corp., *conveying machinery* 4
Crystal Laundry Co., Inc. 21
Curtis Propeller Division (Curtis-Wright Corp.), airplane propellers 463
D. & S. Processing Co., flock printing 140
De Luxe Cleaners & Dyers, Inc. 9
Dick, R. & J., Co., Inc., industrial transmission belting & conveying belting 28
Doherty, Henry, Silk Co., broad silk or rayons 300
Driesen Processing Co., Inc., textile laboratories 3
Dull, John, embroideries 5
Dundee Mills, Inc., textile weaving 64
Electrol, Inc., oil burners, mechanical draft, hot water heaters, parts & accessories 54
Erikson Press 1
Eureka Printing Co., dyeing, printing & finishing cotton goods 232
Fair Maid Silk Corp., broad silk 40

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The INDUSTRIAL DIRECTORY of New Jersey

1946

Compiled, Edited and Published by the
HUDSON DISPATCH
UNION CITY, N. J.

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PRICE $10.00

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PASSAIC COUNTY (cont.)

ALBION PLACE (in Clifton City).

ALLWOOD (in Clifton City).

Industries: Employees

De Mattia Machine & Tool Co., injection molding equipment 51

Gabriel, Samuel, Sons & Co., children's books

Haberland Mfg. Co., textile and paper sizings, cold water soluble gum, vegetable glues 47

Jelleme, John, doors, sash 6

Mercer Engineering Works, Inc., belt, roller and overhead trolley conveyors, cranes, elevators, hoists and winches, tractors, lift, fork and dump body trucks, hand lift trucks, etc. 42

APSHAWA (in West Milford Twp).

ASHLEY HEIGHTS (in West Milford Twp).

ATHENIA (in Clifton City).

AWOSTING (in West Milford Twp).

BARBOUR POND (in Wayne Twp).

BARBOURS MILL (in Wayne Twp).

BARBOURS POND (in West Paterson Boro).

BEAR SWAMP LAKE (in West Milford Twp).

BEARFORT WATERS (in West Milford Twp).

BEAVER POND (in West Milford Twp).

BLOOMINGDALE (Boro). Inc Feb. 23, 1918. Pop 2,608. Area 9.1 sq mi; 5,287 acres and 1,242 lots. Net valuation $1,624,569. Tax rate $5.71. Fire insurance rating F; protection, 2 companies (75). In western part of county, bounded north by Ringwood Boro, east by Wanaque Boro, south by Morris County and west by West Milford Twp. Railroad N. Y., Susquehanna & Western. Bank First National. School 1 public (421). Police 12. Trade association: Butler and Bloomingdale Board of Trade, Butler, N. J. Oscar Storch, Secy. Manufactures overalls. Includes Cold Spring Lake, Glenwild Lake, Iosco Lake, Lake Kampfe, Mothers Lake, Morse Lake, Pompton Junction, Star Lake and Twiliger Lake.

Industries: Employees

Reiss Manufacturing Co., overalls

BOARDVILLE (in Ringwood Boro).

BOY SCOUT LAKE (in West Milford Twp).

BRIDGES POND (in Haledon Boro).

BROWNS (in West Milford Twp).

BRUSHWOOD POND (in Ringwood Boro).

BUCKABEAR POND (in West Milford Twp).

BUTLER WATER CO (in West Milford Twp).

CAMP CHRISTMAS SEAL (in Wayne Twp).

CAMP HOPE (in West Milford Twp).

CAMP NEWLAND LAKE (in West Milford Twp).

CAPSAW LAKE (in Ringwood Boro).

CEDAR POND (in West Milford Twp).

CHARLOTTESBURG (in West Milford Twp).

CLIFTON (City). Inc Apr. 26, 1917. Pop 48,827. Area 11.9 sq mi; 3,549 acres and 19,423 lots. Net valuation $55,951,656. Tax rate $4.81. Fire insurance rating C; protection, 4 companies (62). In southern part of county, bounded north by Paterson, east by Bergen County, south by Passaic City and west by West Paterson Boro and Little Falls Twp.

PASSAIC COUNTY (cont.)

CLIFTON (cont.)

Twelve miles from New York City. roads Erie and D.L.&W., N. Y., Susqu & Western R.R. Also served by bus automobiles from New York City. Clifton National; Clifton Trust Co.; National. Schools 14 public (7,569), parochial. Police 48. Chamber of Com John C. Barbour, pres; Peter R. Clifton National Bank Bldg, sec. Th has improved highways—S3, 4 and 6 co ing with important points. There ar miles of residential streets. Its popu has nearly doubled in the past decade. of the few cities in the industrial, gested East that lists agriculture with manufacturing and business as le enterprises. Includes Albion Place, All Athenia, Delawanna, Lakeview, Rich Richfield Park, West Clifton, and Yant Pond.

Industries: Emplo

Air Cruisers, Inc. (originators of th rubber boat), airplane emergenc equipment

Aircraft Engineering Products, Inc., air craft accessories

Altonjy & Son, jacquard and fancy enter ing, reeding

American Clothing Co., mens' coats

American Colortype Co., job printing

American Trouser Co., Inc.

Athenia Steel Co. (Div. of National Stand ard Co.), flat spring steels

Atlantic Casting & Engineering Corp., pre cision castings

Bagatti, J. F., embroideries

Bantam Products Co., aircraft equipment

Barnes Sheet Metal Works, industrial sheet metal products, etc.

Belfi Bottling Co., Inc.

Benchester Creamery Co., Inc., dairy products

Berco Inks, inks

Bernstein Bros., Vests, Inc., men's vests

Bright Star Battery Co., flashlights and batteries, dry cells, radio batteries

Brook Chemical Co., dyestuffs

Brown, Wm. E., monuments

Central Steel Products, Inc., stove pipe and elbows, funnels, etc.

Chemitex Mfg. Corp., chemicals

Clifton Adhesive Co., rubber adhesives

Clifton Bottling Works, carbonated beverages

Clifton Cabinet Co., millwork

Clifton Glass Co., mirrors and glass specialties

Clifton Laundry Co., Inc.

Clifton Paper Board Co., Inc., paperboard

Clifton Printing Co., Inc., newspaper and job printing

Clifton Wire Rolling Co., reed wire

Cluff, George A., & Son, ribbons

Colony Furniture Co., bedroom furniture

Commercial Textile Mills, Inc., rayon fabrics

Continental Baking Co., bakery products

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1960-1961

[illegible]

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PORT AUTHORITY BUILDING
111 EIGHTH AVENUE • NEW YORK 11, N. Y.

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BRYSON MANUFACTURING CO, INC
76 Hobart Pl, P O Box 61
PR 9-7585
Sewing Machines Devices
SIC-3636
Pr-Boyd Bryson
V P-Sec-Gordon C. Bryson
Tr-James L. Bryson

BURWELL, C. INC.
654 Allwood Rd
PR 7-8610
2,600 Sq Ft
Off M-8, F-2
Industrial Cutting Tools, Abrasives, Ultrasonic Equip, Repair Parts-Screw Machine
SIC-3291, 3545, 3679
Pr-Chester Burwell
V P-Tr-E. M. Burwell
V P-O/M-Beatrice R. Padelford
V P-S/M-Walter T. Johsnon
Sec-Edward L. Stasse

CAHILL EDWARD INC
82 Industrial East
PR 7-1625
Emp M-14 F- 2
Metal Doors, Sash Frames Molding Trim
SIC-3442
Pr-E J Cahill
Sec-E Burns
Tr-J P Cahill

CAIRNS & BROTHER INC.
854 Bloomfield Ave
GR 3-5867
Emp M-19 F- 6
Firemans Equipment
SIC-3569
Ch/Bd-Pr-Tr-Edward Cairns
Exec/V P-Peter A. Coombs
V P-William T. Mc Cutcheon
Sec-Kathryn M. Cairns

CAPCO STAINLESS PRODUCTS INC
30 Central Ave, P O Box 162
PR 8-7900
2,500 Sq Ft
Off M-2, F-1
Plt M-1
Distrib Mill Supplies
SIC-5089
Pr-John J. Capawana
V P-John De Ganci
Sec-Tr-Joseph Capawana

CAPITOL SOAP CORP
310 Colfax Ave
PR 9-8601
Off M-2, F-2
Plt M-7
Sweeping Compounds & Soaps
SIC-2841, 2842
Pr-James Capobianco

CARBO LATEX & CHEMICAL CO., INC.
580 River Rd
GR 2-3181
Emp M- 4
Chemicals & Products
SIC-2899
Pr-F Sabella
V P-C Salerno
Tr-A Lefelar

CARGILLE, R. P. LABORATORIESINC
9 Railroad Ave
194-2nd Ave, Little Falls
CL 6-0094
4,200 Sq Ft, 2/3 Acre
Off M-2, F-3
Plt M-3, F-5
Laboratory Research
SIC-7391
V P-G/M,s/M,p/A-John J. Cargille
117 Liberty St, N Y C 6,
BA 7-5454
PR-R.P. Cargille
Sec-Emmett W Poindexter
Tr-John I. Middleton
Irving Thorn
CARGILLE SCIENTIFIC INC
Same Add-Main Office

CASEY ELECTRIC CO
475 Crooks Ave
GR 1-3570
9,000 Sq Ft
Off M-8, F-2
Plt M-50
Electrical Contractor
SIC-1731
Pr-Edward Cassatly
Exec/V P-George H. Matthews
Sec-Tr-Verna Cassatly
BRANCH OFFICE-
198 Chestnut St, Springfield Mass, V P-Steve Swdtchak

CELANO FORMICA CABINET CO
260 Colfax Ave
PR 3-6614
1,856 Sq Ft
Plt M-1
Formica Custom Made Cabinets
SIC-2511
Owner-Matteo Celano

CENTRAL MOTOR LINES INC
Bloomfield Ave
GR 3-1010
Trucking Except Local
SIC-4213
Pr-P H Johansen
V P/Sls-H Nelson
V P-G/M J K Hall
Tr-C M Misenhelmer
TERMINALS-
Asheville N C Augusta Ga
Charlotte N C Chicago Ill
Columbia S C Durham N C
Greensboro N C Greenville S C
West Hickory N C, Phila Pa
Spartanburg S C
Winston Salem N C

CENTRAL STEEL PRODUCTS, INC.
204 Getty Ave
Emp M-16
Structural Steel Metal
SIC-3441
Pr-Willard L. Fiske
Exec/V P-P/M-Leon Scott

CENTURY ENGINEERING CO
11-12 Orono St
PR 8-5618
Emp M-12 F- 2
Special Industry Machinery
SIC-3559
Owner-Edward F Haracz

CHARVOZ-ROOS CORP
50 Colfax Ave
PR 3-7100
8,000 Sq Ft
Drafting Materials & Supplies, Surveying, Microscopes & Optical Instruments
SIC-3831, 3952
Pr-Tr-E. N. Bernard
VP-Leon Bernard
Sec-Walter Feldman

CHICAGO PRINTED STRING CO
801 Bloomfield Ave
GR 2-5200
10,000 Sq Ft
Off M-3, F-12
Plt M-9, F-10
Gift Tying Ribbon & Industrial Tapes.
SIC-2241,3069
Br S/M-HowardR. Chapman
T/M-A. Nigro
P/M-N. Ratner
MAIN OFFICE-
2300 Logan Blvd, Chicago Ill
Ch/B-Otto Vogl
Pr-Sol S. Weiner
V P-Gen S/M-Harry Sholl
Sec-Tr-George M. Weiner
Comp-Charles Mielke
S/M-Henry L. Greilsheim
A/M-William D. Sarnoff
P/R-Miss Helen Snyder
P/A-Charles E. Hughson, Sr
SALES OFFICE-
225 Fifth Ave, N Y 10, N Y
SUBSIDIARY-
Rapid Ribbon Corp,
Same Address

CLARKSON & FORD CO
30 Industrial West
GR 3-4386
Emp M- 8
Lubricating Oils And Greases
SIC-2992
Pr-Roy M Smith
V P-Bexley Hocombe
Sec-C A Johnson

CLIFTON CABINET CO., INC.
124-126 Lakeview Ave
PR 2-2229
Emp M- 2
MillworkPlants-Woodworking
SIC-2431
Ch/Bd-Sec-Tr-Edward Revack
Pr-Stephen J. Revack
Exec/V P-Helen E. Revack

CLIFTON DRAPERY MFG CO
Sub Of Thomas J. Kazazian Decorators Inc
29 Summit Ave
AR 1-1114
5,000 Sq Ft
Draperies & Slip Covers
SIC-2391
Owner-Thomas J. Kazazian

CLIFTON GLASS CO
1036 Main Ave
PR 7-2420
Emp M-17 F- 2
Glass Products
SIC-3231
Partners-Walter Chmura
Edward Chmura

CLIFTON HYDRAULIC PRESS CO.
289 Alwood Rd
PR 8-3474
Emp M-19 F- 1
Hydraulic Presses
SIC-3542
Owner-Michael Brodsky

CLIFTON LACE CO
37 Chestnut St
GR 1-2058
3,200 Sq Ft
Plt M-7, F-3
Levers Nylon Laces
SIC-2397
Partners-Edward P. Seabridge
Thomas Seabridge
Joseph Seabridge
Albert Seabridge
Tivey Seabridge
S/M-Edward Seabridge
P/A-Thomas A. Tivey

CLIFTON METAL PRODUCTS CO
41 Clifton Blvd
PR 7-6100
10,000 Sq Ft
Off F-1
Plt M-12
Custom Mfg Of Metal Products
SIC-3499
Pr-Joseph Benjamin
V P-Tr-A. Frederick Larson

CLIFTON ORNAMENTAL IRON WORKS
61 Franklin Ave
GR 1-9210
5,000 Sq Ft
Plt M-7
Fabrication Of Ornamental Iron
SIC-3449
Owner-Tizian Belli
P/F-Joseph Miller

CLIFTON PAPER BOARD CO INC
1 Ackerman Ave
PR 3-0700
Emp M-241, F-5
Paper Paperboard Mills
SIC-2631
Pr-A Desiderio
V P-T S Siderio
Sec-D S Siderio

CLIFTON PRINTING PUBLISHING CO INCORPORATED
690 Main Ave
GR 3-3012
Emp M-13 F- 2
Commercial Printing
SIC-2751
Pr-Max Kroll
Sec-Tr-George Kroll

CLIFTON TOOL & MFG CO
15 Mt Prospect Ave
GR 3-5862
Emp M- 8
Machine Shops Jobbing & Repair
SIC-3591
Partners-Fred Sadrak
William Stub

CLUFF GEORGE A & SON
398 West Third St
Getty Ave
GR 1-1723
Emp M- 1 F- 1
Narrow Fab Mills Cotton Wool
SIC-2241
Owner-G A Cluff

COLITE PRODUCTS CO
83 Wabash Ave
GR 1-3889
Emp M- 6
Signs Advertising Displays
SIC-3993
Partners-J V Catalana
V J Collodal

CONCORD SUPPLY COMPANY
600 Clifton Ave
PR 7-7022
5,000 Sq Ft
Off M-2
Plt M-2
Parts & Servicing Of Conveyors
SIC-3535
Partners-J. L. Wentz
J. E. Schablik

D K PLASTIC CO INC
52 Lower River Rd
PR 9-7142
Emp M- 3
Fabricated Plastics Products
SIC-3079
Pr-John Duplig
Sec-Tr-Alice Duplig

D & S PROCESSING COMPANY
Grunwald St
PR 9-2764
M-180 F- 36
Dying Finishing Textiles
SIC-2269
Partners-E L Donahue
L Steen

DATASCAN INC
324 Colfax Ave
PR 3-8803
5,000 Sq Ft
Off M-3, F-1
Plt M-10, F-5
Power Supplies & Special Test Equipment
SIC-3569, 3622
Ch/Bd-Pr-Morton S. Levin
V P-William Rothman

ANNUAL REPORT

by

Chief Engineer
S. A. LUBETKIN

to the

PASSAIC VALLEY SEWERAGE COMMISSIONERS

FOR THE YEAR

1973

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Violation and Elimination - Universal Foods (con't)

Meanwhile the N. J. Department of Environmental Protection also ordered the Universal Foods Corp. to halt the pollution of the Passaic River.

Coastal Services stated they would pick up the material but had no way to dispose of it. Mr. Burns of NJSDEP called Mr. Lubetkin and asked if PVSC could take this material at the request of the NJSDEP. The PVSC agreed, since the request was made by the NJSDEP, but that Universal Foods Corp. would have to agree to pay for the disposal costs. Mr. Rutter agreed to this and about 124,500 gallons of dirty molasses was discharged into the PVSC sludge tanks ... making our sludge the sweetest in town.

Violation and Elimination - Vortey Construction Co., 17 Maple Avenue, Great Neck, N. Y.
January 16, 1973 (D. Miele, Jr.)

The Vortey Construction Company was constructing the Commons Apartment located at 1-11 River Road, Nutley, N. J., and while leveling the ground, his bulldozer cracked the 12-inch sanitary line on this property, allowing sanitary waste to empty into the Belleville-Nutley storm ditch, thence to the Passaic River.

The contractor immediately started repairs and completed the job of replacing a four foot section of broken sewer at 3:30 P.M. on the same afternoon (January 16, 1973), and at 4:00 P.M. the by-pass pump was halted. They had been pumping approximately three hours while the repair was being made.

Violation and Elimination - Whippany Paper Board Company, 1 Ackerman Avenue, Clifton, N. J.
July 23 - 25, 1973 (F. Wendt)

On Tuesday, July 24, 1973, at 9:00 A.M., the PVSC were notified by Mr. Collier, Plant Manager, that a break occurred the previous evening (July 23 at 5:30 P.M.) in the sanitary sewer at the main gate of this plant. The waste flowed over the sidewalk and thence into the Passaic River. Work on repair started on Tuesday, July 24, and was finished at 3:00 P.M. on Thursday, July 26. Actually, pollution was halted on Wednesday morning, July 25, when Mr. Collier had the plant shut down in order to make the repair.

Violation and Elimination - Wollen Chemical and Supply Co., 126 Sixth Avenue, Paterson, N. J.
July 6-7, 1973 (L. Tateo)

At 3:50 A.M. on July 6, 1973 a fire broke out at this plant, completely destroying it in a spectacular blaze. Firemen poured water onto the blaze at the rate of 7,000 gallons a minute from 4 A.M. to 7 A.M. and then continued applying water to the ruins at a lesser rate until Saturday, July 7, 1973. The water washed chemicals and dyes into the Passaic River through the Sixth Avenue Storm Sewer, and the colors could be seen 50 to 100 yards downstream.

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Comprehensive Report

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Report Printed: MAR 01 2005

Overview

BUSINESS SUMMARY

EDEN WOOD CORPORATION
EDEN WOOD REALTY COMPANY
47 Parsippany Rd
Whippany, NJ 07981

D&B D-U-N-S Number: 62-078-4868

This is a **headquarters** location.
Branch(es) or division(s) exist.

Telephone:	973 428-0065
Fax:	973 428-0506
Chief executive:	RICHARD W NEU, PRES-CEO
Year started:	1933
Management control:	1988
Employs:	41 (12 here)
History:	CLEAR
SIC:	6512 4481
Line of business:	Real estate holding company & owner & operator of ocean going motor vessels

Now Included with this Report NEW!

D&B's Credit Limit Recommendation
How much credit should you extend?
Learn More **View Now**

Payment Trends Profile
Payment trends and industry benchmarks
Jump to Payment Trends

Credit Score Class: 3
Moderate risk of severe payment delinquency over next 12 months

High Moderate Low
5 4 3 2 1

Financial Stress Class: 1
Low risk of severe financial stress over the next 12 months

High Moderate Low
5 4 3 2 1

12-Month D&B PAYDEX®: 73
When weighted by dollar amount, payments to suppliers average 11 days beyond terms.

0 100
120 days slow 30 days slow Prompt Anticipates

D&B Rating:	**1R4**
Number of employees:	1R is **10 or more** employees.
Composite credit appraisal:	4 is **limited**.

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D&B EXCLUSIVE

EXECUTIVE SUMMARY

The **Financial Stress Class of 1** for this company shows that during the previous year, firms with this classification had a failure rate of 0.49% (49 per 10,000), which is lower than the national average.

The **Credit Score class of 3** for this company shows that during the previous year, 12.3% of the firms with this classification paid one or more bills severely delinquent, which is lower than the national average.

Predictive Scores	This Business	Comments
Financial Stress Class	1	Failure Rate lower than the national average
Financial Stress Score	1495	Highest Risk: 1,001; Lowest Risk: 1,850
Credit Score Class	3	Probability of Severely Delinquent Payment is lower than the national average.
Other Key Indicators		
PAYDEX Scores	11 days beyond terms	Pays more slowly than the average for its industry of 3 days beyond terms
Industry Median	3 days beyond terms	
Present management control	17 years	
UCC Filings	UCC filing(s) are reported for this business	
Public Filings	Evidence of open suits and judgement in the D&B database	
History	Is clear	

CREDIT CAPACITY SUMMARY

D&B Rating: **1R4**
Number of employees: 1R indicates **10 or more** employees.
Composite credit appraisal: 4 is **limited**.

The 1R and 2R ratings categories reflect company size based on the total number of employees for the business. They are assigned to business files that do not contain a current financial statement. In 1R and 2R Ratings, the 2, 3, or 4 creditworthiness indicator is based on analysis by D&B of public filings, trade payments, business age and other important factors. 2 is the highest Composite Credit Appraisal a company not supplying D&B with current financial information can receive. For more information, see the D&B Rating Key.

# of Employees Total: 41 (12 here)

Payment Activity:
(based on 35 experiences)

Average High Credit:	$1,683
Highest Credit:	$20,000
Total Highest Credit:	$54,800

Jump to:

Overview | Payments | Public Filings | History & Operations | Banking & Finance

Scores D&B EXCLUSIVE

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FINANCIAL STRESS SUMMARY

The Financial Stress Summary Model predicts the likelihood of a firm ceasing business without paying all creditors

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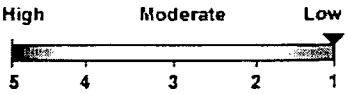
in full, or reorganization or obtaining relief from creditors under state/federal law over the next 12 months. Scores were calculated using a statistically valid model derived from D&B's extensive data files.

Financial Stress Class: 1



Low risk of severe financial stress, such as a bankruptcy, over the next 12 months.

Incidence of Financial Stress

Among Businesses with this Classification:	0.49% (49 per 10,000)
National Average	1.40% (140 per 10,000)

Financial Stress National Percentile: 82 (Highest Risk: 1; Lowest Risk: 100)

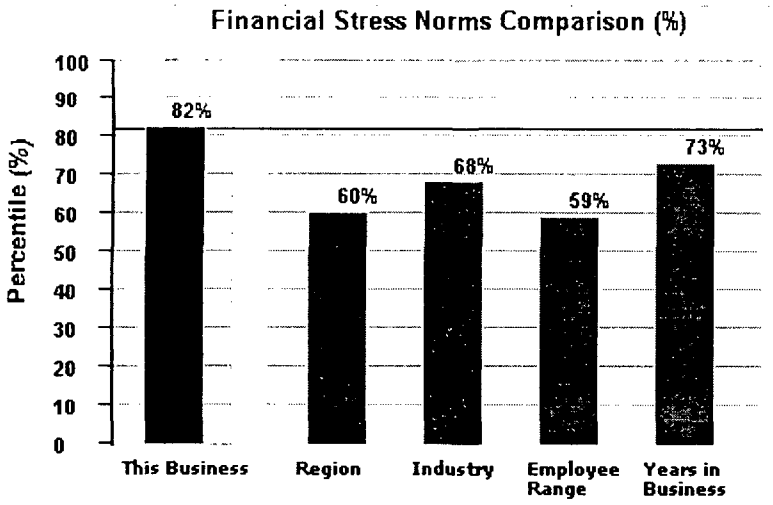
Financial Stress Score: 1495 (Highest Risk: 1,001; Lowest Risk: 1,850)

The Financial Stress Class of this business is based on the following factors:

- 31% of trade experiences indicate slow payment(s) are present.

Notes:

- The Financial Stress Class indicates that this firm shares some of the same business and financial characteristics of other companies with this classification. It does not mean the firm will necessarily experience financial stress.
- The Incidence of Financial Stress shows the percentage of firms in a given Class that discontinued operations over the past year with loss to creditors. The Incidence of Financial Stress - National Average represents the national failure rate and is provided for comparative purposes.
- The Financial Stress National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.
- The Financial Stress Score offers a more precise measure of the level of risk than the Class and Percentile. It is especially helpful to customers using a scorecard approach to determining overall business performance.
- All Financial Stress Class, Percentile, Score and Incidence statistics are based on 2002.



Region=MIDDLE ATLANTIC
Industry=REAL ESTATE
Employee Range=20-99
Years in Business=11-25

Norms	National %
This Business	82
Region: **MIDDLE ATLANTIC**	60
Industry: **REAL ESTATE**	68
Employee Range: **20-99**	59
Years in Business: **11-25**	73

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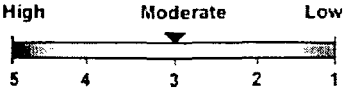
This business has a Financial Stress Percentile that shows:

- *Lower risk than other companies in the same region.*
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

CREDIT SCORE CLASS SUMMARY

The Credit Score class predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent payment information in D&B's files.

Credit Score Class: 3



Moderate risk of severe payment delinquency over next 12 months.

Incidence of Delinquent Payment

Among Companies with this Classification: 12.30%

Credit Score Percentile: 34 (Highest Risk: 1; Lowest Risk: 100)

The Credit Score Class of this business is based on the following factors:

- 31% of trade experiences indicate slow payment(s) are present.
- Payment information indicates negative payment comments.
- Business does not own facilities.

Notes:

- The Incidence of Delinquent Payment is the percentage of companies with this classification that were reported 90 days past due or more by creditors. The calculation of this value is based on an inquiry weighted sample.
- The Percentile ranks this firm relative to other businesses. For example, a firm in the 80th percentile has a lower risk of paying in a severely delinquent manner than 79% of all scorable companies in D&B's files.

Norms	National %
This Business	34
Region: **MIDDLE ATLANTIC**	43
Industry: **REAL ESTATE**	61
Employee Range: **20-99**	60
Years in Business: **11-25**	61

ABK000034

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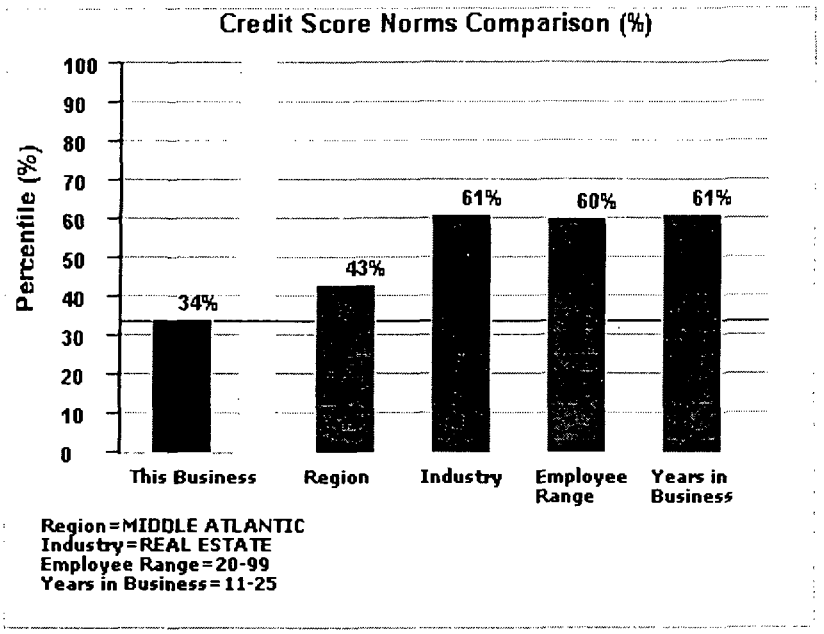


This business has a Credit Score Percentile that shows:

- Higher risk than other companies in the same region.
- Higher risk than other companies in the same industry.
- Higher risk than other companies in the same employee size range.
- Higher risk than other companies with a comparable number of years in business.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments D&B EXCLUSIVE

PAYMENT TRENDS

Total Payment Experiences in D&B's File:	35	**Current PAYDEX is:**	**73**	equal to 11 days beyond terms
Payments Within Terms: (not dollar weighted)	78%	**Industry Median is:**	**78**	equal to 3 days beyond terms
Total Placed For Collection:	1	**Payment Trend currently is:**	↔	**unchanged**, compared to payments three months ago
Average Highest Credit:	$1,683			
Largest High Credit:	$20,000			
Highest Now Owing:	$5,000			
Highest Past Due:	$500			

Indications of slowness can be the result of dispute over merchandise, skipped invoices, etc. Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed.

PAYDEX Scores

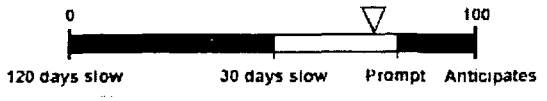
ABK000035

946010054

Shows the D&B PAYDEX scores as calculated on the most recent 3 months and 12 months of payment experiences.

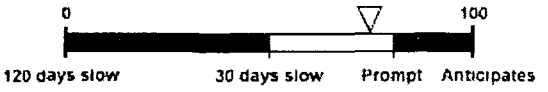
The D&B PAYDEX is a unique, dollar weighted indicator of payment performance based on up to payment experiences as reported to D&B by trade references. A detailed explanation of how to read and interpret PAYDEX scores can be found at the end of this report.

3-Month D&B PAYDEX: 76
When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



Based on payments collected over last 3 months.

12-Month D&B PAYDEX: 73
When weighted by dollar amount, payments to suppliers average 11 days beyond terms.



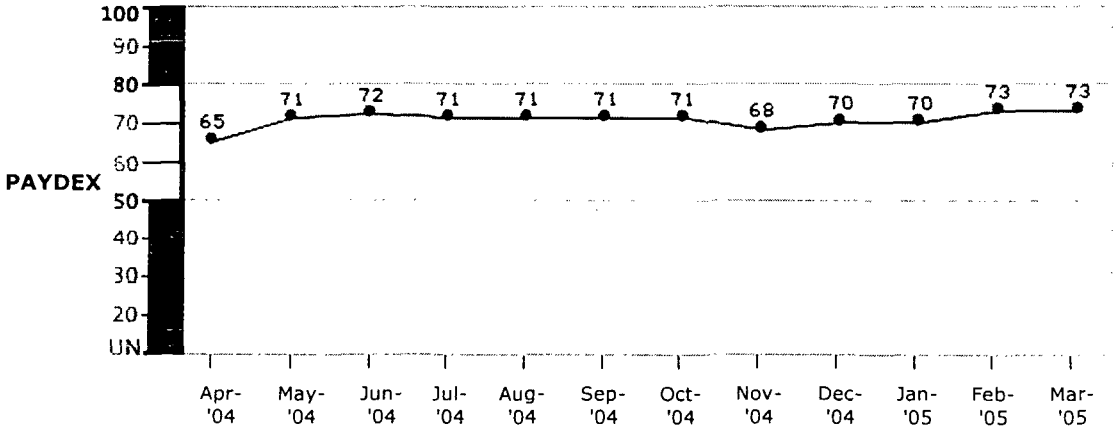
Based on payments collected over last 12 months.

PAYDEX Yearly Trend

12 Month PAYDEX Scores Comparison to Industry

	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
This Business	65	71	72	71	71	71	71	68	70	70	73	73
Industry Quartiles												
Upper			80			80			80			80
Median			79			78			78			79
Lower			73			72			72			73

Shows the trend in D&B PAYDEX scoring over the past 12 months.



Last 12 Months

Based on payments collected over the last 12 months.

- Current PAYDEX for this Business is 73, or equal to 11 days beyond terms
- The 12-month high is **73**, or equal to 11 days beyond terms
- The 12-month low is **65**, or equal to 19 days beyond terms

ABK000036

PAYDEX Comparison to Industry

946010055

Shows PAYDEX scores of this Business compared to the Primary Industry from each of the last four quarters. The Primary Industry is Real estate holding company & owner & operator of ocean going motor vessels, based on SIC code 6512.

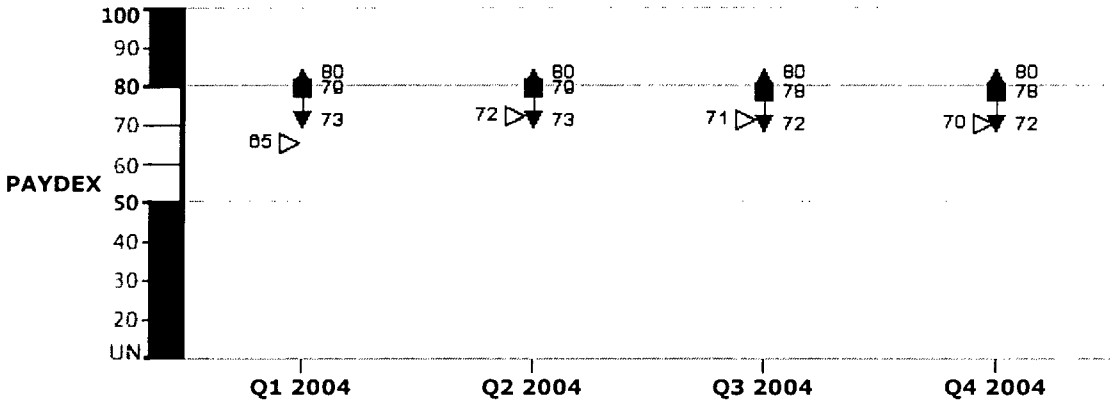
Quarterly PAYDEX Scores Comparison to Industry

Previous Year

	3/03	6/03	9/03	12/03
This Business	UN	67	68	66
Industry Quartiles				
Upper	80	80	80	80
Median	79	79	79	79
Lower	73	72	73	73

Current Year

	3/04	6/04	9/04	12/04
This Business	65	72	71	70
Industry Quartiles				
Upper	80	80	80	80
Median	79	79	78	78
Lower	73	73	72	72



Last 12 Months

Based on payments collected over the last 4 quarters.

Score Comparison Key: ▷ This Business ▲ Industry upper quartile ■ Industry median ▼ Industry lower quartile

- Current **PAYDEX** for this Business is **73**, or equal to 11 days beyond terms
- The present industry **median score** is **78**, or equal to 3 days beyond terms.

- Industry upper quartile represents the performance of the payers in the 75th percentile
- Industry lower quartile represents the performance of the payers in the 25th percentile

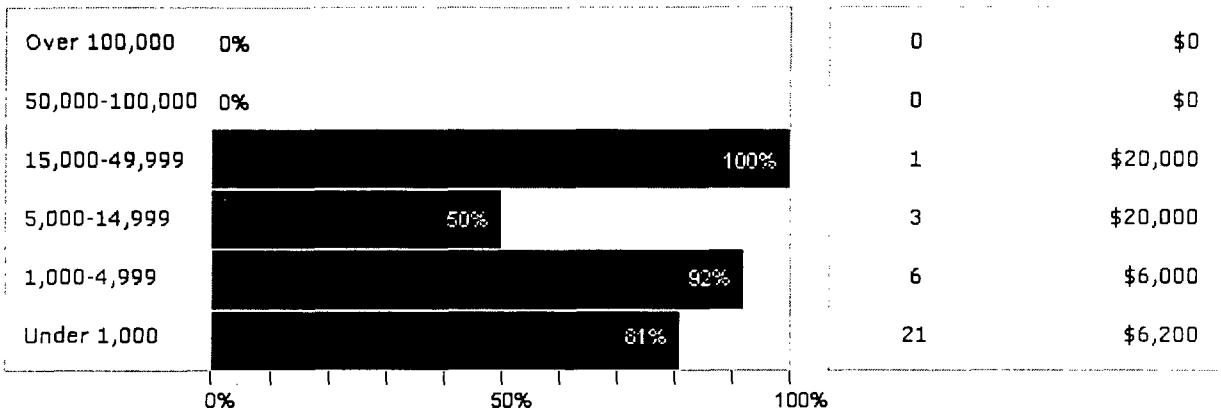
Payment Habits

For all payment experiences within a given amount of credit extended, shows the percent that this Business paid within terms. Provides number of experiences used to calculate the percentage, and the total dollar value of the credit extended.

ABK000037

$ Credit Extended	% of Payments Within Terms	# Payment Experiences	$ Total Dollar Amount

946010056



Based on payments collected over the last 12 months.

Payment experiences reflect how bills are met in relation to the terms granted. In some instances, payment beyond terms can be the result of disputes over merchandise, skipped invoices, etc.

PAYMENT SUMMARY

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

There are 35 payment experiences in D&B's file for the most recent 12 months, with 27 experiences reported during the last three month period.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

	Total Rcv'd (#)	Total Dollar Amts ($)	Largest High Credit ($)	Within Terms (%)	Days Slow <31 (%)	31-60	61-90	90>
Top industries:								
Electric services	6	22,100	20,000	98	2	0	0	0
Data processing svcs	4	1,600	1,000	92	8	0	0	0
Gas transmission dist	3	5,550	5,000	54	46	0	0	0
Short-trm busn credit	3	1,150	1,000	91	9	0	0	0
Whol electrical equip	2	550	500	91	9	0	0	0
Nonclassified	2	150	100	100	0	0	0	0
Telephone communictns	2	100	50	100	0	0	0	0
Detective/guard svcs	1	10,000	10,000	50	50	0	0	0
Truck rental/leasing	1	5,000	5,000	50	50	0	0	0
Help supply service	1	1,000	1,000	100	0	0	0	0
Air courier service	1	1,000	1,000	50	50	0	0	0
Misc business service	1	1,000	1,000	100	0	0	0	0
Radiotelephone commun	1	750	750	50	50	0	0	0
Arrange cargo transpt	1	750	750	100	0	0	0	0
Ret mail-order house	1	750	750	100	0	0	0	0
Misc general gov't	1	750	750	100	0	0	0	0
Other payment categories:								
Cash experiences	0	0	0					
Payment record unknown	3	2,600	2,500					
Unfavorable comments	0	0	0					
Placed for collections:								
With D&B	0	0	0					
Other	1	N/A	0					

ABK000038

946010057

Total in D&B's file:	35	20,000

The highest **Now Owes** on file is $5,000 The highest **Past Due** on file is $500

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Indications of slowness can be result of dispute over merchandise, skipped invoices, etc.

PAYMENT DETAILS

Detailed payment history

Date Reported (mm/yy)	Paying Record	High Credit ($)	Now Owes ($)	Past Due ($)	Selling Terms	Last Sale Within (months)
01/05	Ppt	1,000	1,000	0		1 mo
	Ppt	750	250	0	N30	1 mo
	Ppt	500	0	0	N30	1 mo
	Ppt	500	500	0		1 mo
	Ppt	250	100	0		1 mo
	Ppt	100	0	0		1 mo
	Ppt	100	50	0		1 mo
	Ppt	50	50	0		1 mo
	Ppt	50	50	0		1 mo
	Ppt	50	50	0		1 mo
	Ppt-Slow 30	5,000	5,000	0		1 mo
	Ppt-Slow 30	250	100	0		1 mo
	Ppt-Slow 30	100	100	0		1 mo
	Slow 10	50	0	0	N30	1 mo
	Slow 30	50	0	0		6-12 mos
	Slow 30	50	50	0		1 mo
	(017)	2,500	750	500	N30	1 mo
12/04	Ppt	20,000	2,500	0		
	Ppt	1,000	750	0		
	Ppt	500	500	0		
	Ppt	50	50	0		
	Ppt	50	50	0		
	Ppt-Slow 30	1,000	500	0		1 mo
	Ppt-Slow 30	750	250	0		1 mo
	Slow 30	500	250	250	N30	
	(026)	50	50	0	N30	
	(027)	50	50	0	N30	
11/04	(028)	750				1 mo
	Satisfactory.					
10/04	Ppt	1,000	1,000	0		1 mo
	Ppt-Slow 30	5,000	0	0	N30	6-12 mos
07/04	Ppt-Slow 30	10,000	0	0		6-12 mos
05/04	Ppt	1,000	50	0		6-12 mos
	Ppt	1,000	0	0		4-5 mos
	(034)	50	50	50		
	Placed for collection.					
01/04	Ppt	750	0	0	N30	6-12 mos

946010058

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed.

ABK000039

Payment experiences reflect how bills are met in relation to the terms granted. In some instances payment beyond terms can be the result of disputes over merchandise, skipped invoices etc.

Each experience shown is from a separate supplier. Updated trade experiences replace those previously reported.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

The following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	0	-
Judgments	1	11/14/1995
Liens	0	-
Suits	11	12/10/2003
UCC's	2	05/01/1998

The following Public Filing data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

JUDGMENTS

Status: **Unsatisfied**
DOCKET NO.: JC-00002255-95 SC
Judgment type: Judgment
Against: $414 - EDENWOOD CORP
In favor of: BILL BORKOWSKI, HARRISON, NJ
Where filed: MORRIS COUNTY SPECIAL CIVIL/SMALL CLAIMS COURT, MORRISTOWN, NJ

Date status attained: 11/14/1995
Date entered: 11/14/1995
Latest Info Received: 06/04/2004

SUITS

Suit amount: **$26,143**
Status: **Pending**
DOCKET NO.: L 003292 03
Plaintiff: BUSSEL REALTY CORP
Defendant: EDEN WOOD REALTY CO AND OTHERS
Cause: COMMERCIAL TRANSACTION
Where filed: MORRIS COUNTY SUPERIOR COURT, MORRISTOWN, NJ

Date status attained: 12/10/2003
Date filed: 12/10/2003
Latest Info Received: 03/22/2004

ABK000040

Status: **Pending**
DOCKET NO.: L 003446 02
Plaintiff: ARCHIE SCHWARTZ CO
Defendant: EDEN WOOD REALTY
Cause: CONTRACT

946010059

Where filed: MORRIS COUNTY SUPERIOR COURT, MORRISTOWN, NJ

Date status attained: 10/31/2002
Date filed: 10/31/2002
Latest Info Received: 08/13/2004

Suit amount: **$3,786**
Status: **Dismissal without prejudice**
DOCKET NO.: DC-006905-2001
Plaintiff: EXCELSIOR PERSONNEL INC
Defendant: EDEN WOOD CORP
Cause: CONTRC-REG
Where filed: MORRIS COUNTY SPECIAL CIVIL/SMALL CLAIMS COURT, MORRISTOWN, NJ

Date status attained: 10/18/2001
Date filed: 08/31/2001
Latest Info Received: 11/05/2004

Status: **Pending**
DOCKET NO.: L 005631 01
Plaintiff: JUAN JOSE DALMASI
Defendant: EDEN WOOD CORPORATION
Cause: PERSONAL INJURY
Where filed: MIDDLESEX COUNTY SUPERIOR COURT, NEW BRUNSWICK, NJ

Date status attained: 06/05/2001
Date filed: 06/05/2001
Latest Info Received: 11/26/2001

Status: **Dismissal with prejudice**
DOCKET NO.: GD 02625-01
Plaintiff: STRATEGIC REALTY SERVICES, INCORPORATED
Defendant: ALLENTOWN COMMERCE PARK CORPORATION, ALLENTOWN, PA
Where filed: ALLEGHENY COUNTY PROTHONOTARY, PITTSBURGH, PA

Date status attained: 04/23/2001
Date filed: 02/08/2001
Latest Info Received: 10/16/2003

Status: **Pending**
DOCKET NO.: 008973-00
Plaintiff: FOLEY INC
Defendant: EDEN WOOD CORP
Where filed: MIDDLESEX COUNTY SUPERIOR COURT, NEW BRUNSWICK, NJ

Date status attained: 11/02/2000
Date filed: 11/02/2000
Latest Info Received: 04/09/2001

Status: **Dismissal without prejudice**
DOCKET NO.: 00005209
Plaintiff: 2522 - THONET ASSOCIATES
Defendant: EDEN WOOD REALTY CRP
Where filed: MORRIS COUNTY SPECIAL CIVIL/SMALL CLAIMS COURT, MORRISTOWN, NJ

Date status attained: 09/18/2000
Date filed: 07/26/2000
Latest Info Received: 11/05/2004

ABK000041

Status: **Dismissed**
DOCKET NO.: 003258-00
Plaintiff: CAROL CONROY DANIEL CONROY SR
Defendant: NEV HOLDINGS CORPORATION, JERSEY CITY, NJ AND OTHERS
Where filed: HUDSON COUNTY SUPERIOR COURT, JERSEY CITY, NJ

Date status attained: 01/27/2001

946010060

Date filed: 05/15/2000
Latest Info Received: 01/10/2005

Status: **Dismissal with prejudice**
DOCKET NO.: 00000452
Plaintiff: 7213 - ERIK T GOOLD
Defendant: EDENWOOD REALTY CO
Where filed: MORRIS COUNTY SPECIAL CIVIL/SMALL CLAIMS COURT, MORRISTOWN, NJ

Date status attained: 03/21/2001
Date filed: 01/12/2000
Latest Info Received: 11/05/2004

Status: **Dismissal with prejudice**
DOCKET NO.: SL-00003926-99
Plaintiff: 20638 - BOWLES CORPORATE SERVICES INC
Defendant: EDENWOOD REALTY CORP
Where filed: MORRIS COUNTY SUPERIOR COURT, MORRISTOWN, NJ

Date status attained: 10/05/2000
Date filed: 12/21/1999
Latest Info Received: 06/04/2004

If it is indicated that there are defendants other than the report subject, the lawsuit may be an action to clear title to property and does not necessarily imply a claim for money against the subject.

UCC FILINGS

Collateral: Equipment
Type: Original
Assignee: TOYOTA MOTOR CREDIT CORP, TORRANCE, CA
Debtor: NEU LOGISTICS SERVICES, ALLENTOWN, PA
Filing number: 28880423
Filed with: SECRETARY OF STATE/UCC DIVISION, HARRISBURG, PA

Date filed: 05/01/1998
Latest Info Received: 05/18/1998

Collateral: Leased Equipment
Type: Original
Sec. party: FUL CORPORATION, BANNOCKBURN, IL
Debtor: NEU LOGISTICS SERVICE A DIV OF EDEN WOOD CORPORATION
Filing number: 1666143
Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 11/08/1995
Latest Info Received: 12/29/1995

There are additional suits, liens, or judgments in D&B's file on this company available by contacting 1-800-234-3867.

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

GOVERNMENT ACTIVITY

Activity summary

Borrower (Dir/Guar):	NO
Administrative debt:	NO
Contractor:	NO
Grantee:	NO
Party excluded from federal program(s):	NO

ABK000042

946010061

Possible candidate for socio-economic program consideration

Labor surplus area: N/A

Small Busines

ABK000043

946010062

WHIPPANY PAPER BOARD
NJDEP-ECRA CASE #85193
FINAL REPORT OF SITE REMEDIAL ACTIVITIES
for
Recycled Paper Board of Clifton, Inc.
Clifton, New Jersey

JANUARY 11, 1990

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Drum Storage Area 2
160,000 Gallon Storage Tank 2

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PROJECT SUMMARY AND CONCLUSIONS: 7

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Well Certification Forms,
Well Closure Form and
Well Search Diagram ..... Appendix II

Drum Storage Area: Post-Excavation
Sampling Diagram, Waste Manifests,
Clean-Fill Affidavit ..... Appendix III

160,000 Gallon Storage Tank:
Waste Manifests ..... Appendix IV

Drum Storage Area: Post-Excavation
Sample Laboratory Results with Tier II
Data Package ..... Appendix V

160,000 Gallon Storage Tank:
Initial and Continuing Calibration
Data for Volatile Organic Analyses ..... Appendix VI

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

January 11, 1991

Cleanup Oversight Section/BEECRA
New Jersey Department of Environmental Protection
CN 028
Trenton, New Jersey 08625-0028
Attn: Mr. John Graham, Case Manager

RE: Whippany Paperboard Co.
Remedial Activities
ECRA Case # 85193

Dear Mr. Graham:

Hazardous Waste Engineering Consultants is pleased to present this final report of the NJDEP ECRA site clean-up of the Whippany Paper Board facility located at 1 Ackerman Avenue in Clifton, New Jersey. The remedial activities outlined in this report were preformed according to the clean-up plan proposed in our report dated March 22, 1989 and your approval letter dated January 31, 1990. The clean-up included the removal of the contaminated soil from the drum storage area and from the area beneath the fill pipe to the 160,000 gallon above ground fuel oil storage tank. A summary of the "Milestone Dates" associated with this site remediation program is included in Appendix I

Several additional points were also outlined by the NJDEP clean-up approval letter dated January 31, 1990. These additional points were addressed in our letter dated March 22, 1990. Our letter included the narrative description of the sampling procedure, the sample location diagram and the analytical results from the previous sampling around the Transformer Pad; and the additional QA/QC information which was requested. Items 3 and 4 of the "Groundwater" section of your letter were not included in our letter. These items included the certification of closure for monitoring well MW-1 and a scale drawing which depicts the location of the wells identified by the well search conducted through the Bureau of Water Allocations. A copy of the certification of well closure and a copy of the scale drawing depicting the location of the wells within a ¼ mile radius of the site is included in Appendix II. As requested in your letter dated December 26, 1990, we have also included a copy of the Monitoring Well Certification Forms for the wells installed

during this ECRA program.

Scope of Work:

Drum Storage Area

On October 31, 1989, the soil from around the drum storage area was excavated and stored in a plastic lined roll-off container located on site. Four (4) post-excavation samples were collected at depths ranging from 13 inches to 19 inches below grade. The post-excavation samples were analyzed for Total Petroleum Hydrocarbons, PCB's, BN+15, antimony, cadmium, copper, mercury and zinc. The analytical results from these analyses indicated that the level of compounds detected in the post-excavation samples were below the respective NJDEP soil action levels. Based upon these results, the excavation pit was back-filled with clean fill. A post excavation sampling diagram and a copy of the affidavit for the clean fill is included in Appendix III. On January 30, 1990, the soil was transported to the landfill for disposal. A copy of the waste manifest and a copy of the affidavit certifying the backfill as virgin material are also included in Appendix III.

160,000 Gallon Above Ground Fuel Oil Storage Tank

On October 31, 1989, the stained soil was excavated from around the fill pipe of the above ground storage tank and stored in a plastic lined roll-off container located on site. Four (4) post excavation samples were collected and analyzed for PHC content. Because of economic considerations, all of the required post-excavation sample analyses were not conducted until laboratory analysis indicated that the detected level of PHC was below the NJDEP action level of 100 mg/kg. The detected level of PHC in the post-excavation samples, collected on this date, ranged from 572 mg/kg to 1,380 mg/kg.

On December 22, 1989, additional soil was excavated and stored in the roll-off container located on site. Post-excavation samples were collected and analyzed for PHC content. The detected level of PHC in these post-excavation samples ranged from 271 mg/kg to 1,150 mg/kg.

On January 30, 1990, additional soil was excavated and stored in the roll-off container located on site. Four (4) post excavation samples were collected and analyzed for PHC content. The detected level of PHC in these post-excavation samples ranged from 270 mg/kg to 2,920 mg/kg. Further excavation was postponed until water which had collected in the pit subsided.

ABK000196

246010068

Between February 1990 and May 1990, several attempts were made to excavate additional material. However, heavy rains during this period continued to collect within the pit and hindered the excavation of additional soil. Further excavation was postponed until a period of dry weather occurred.

On June 29, 1990, additional soil was excavated and stored in the roll-off container on site. The effective excavation of the soil was impeded by the surface run-off water which had collected in the base of the pit. The detected level of PHC in these post-excavation samples ranged from 16 mg/kg to 301 mg/kg.

On July 13, 1990, additional soil was excavated. By this date an estimated total of 26 cubic yards of soil had been removed from the area under the fill pipe of the 160,000 gallon aboveground fuel oil storage tank. Three (3) post-excavation samples were collected from the excavation for final post-excavation sample analysis. The locations of the post-excavation samples is depicted on the site diagram included in our report dated September 11, 1990. Surficial water was encountered in the bottom of the excavation at a depth of approximately 5.0' below grade, therefore a base sample could not be collected. The three sidewall samples were collected over the 0.0"-6.0" interval directly above the water level in the excavation. Because the previous PHC results were significantly lower than previous post-excavation results, these samples were submitted for analysis for Petroleum Hydrocarbon (PHC) content and Priority Pollutant Volatile Organic Compounds +15 (PPVO +15). The samples were also submitted for preliminary scanning for Priority Pollutant Base/Neutral Compounds +15 (PPB/N+15). All analyses were performed in our laboratory in Ossining, New York.

On August 17, 1990, three (3) additional post-excavation samples were collected from the excavation adjacent to the fuel oil storage tank. The sampling locations were identical to the locations sampled on July 13, 1990. Since our laboratory in Ossining, New York is not certified to conduct PPB/N+15 analysis in New Jersey, this additional sampling was conducted to confirm the results of the preliminary scanning for the PPB/N+15 compounds. The samples were submitted for final Priority Pollutant Base/Neutral+15 (PPBN +15) analysis by RMC Environmental Services, Inc in Pottstown, Pennsylvania.

Because PHC analytical results from the sampling conducted on July 13, 1990, indicated levels of PHC's at 182 mg/kg in post-excavation sample WPB-PE1, on August 22, 1990, one half (1/2) an additional cubic yard of soil was removed from the northeastern side of the excavation (the side closest to the facility). After the soil had been removed, one (1) post-excavation sample was collected from the sidewall. The sample was collected over the 0.0"-6.0" interval above the water level in the excavation and submitted for PHC analysis.

On December 7, 1990, the soil which was stored in the roll-off dumpster was transferred into two (2) licensed roll-off dumpsters for transportation to the landfill for disposal. Based upon the waste classification analysis, this soil classified as a RCRA hazardous waste because its lead content was detected at 5.02 and 5.08 ppm which exceeded the RCRA threshold limit of 5.0 ppm for lead. The landfill was a secure RCRA landfill and stabilized the soil prior to disposal. The fill used to backfill the excavation was from the source identified in Appendix III. Copies of the waste manifests are included in Appendix IV.

Quality Control/Quality Assurance:

Each day sampling was conducted, additional samples were collected for Quality Control/Quality Assurance purposes. A field blank was collected and consisted of distilled water which was rinsed over the sampling equipment after the final stage of the sequential decontamination procedure. A field duplicate was collected along with the soil samples. Each day samples were collected for volatile organic analysis, a sealed trip blank was prepared at the HWEC laboratory in Ossining, New York prior to the field technician's departure. The trip blank consisted of a 40 ml glass vial filled with deionized water and it accompanied the sampling equipment and containers to the site and returned with the samples to the laboratory and was submitted for analysis along with the field samples.

Between the collection of each sample, the sampling equipment was cleaned with the following sequential series of decontamination procedures: washed with non-phosphate detergent, rinsed with tap water, rinsed with distilled water, rinsed with 10% nitric solution, rinsed with distilled water, rinsed with acetone, air dried and rinsed with distilled water.

All samples were collected in laboratory cleaned 40 ml volatile organic vials, 120 ml amber glass jars and 500 ml clear glass jars. All container lids were Teflon lined. The samples were clearly labeled with the sample location, the sample identification number, date and time. The samples were chilled with blue ice and placed into a cooler for transportation to the laboratory. A chain of custody accompanied each set of samples.

Laboratory Analysis:

Drum Storage Area

The four (4) post-excavation samples were collected on October 31, 1990 at a depths ranging from 13 inches to 19 inches below grade. The post-excavation samples were analyzed for PCB's via EPA Method 8080, Priority Base/Neutral Compounds+15 via EPA Method 625, antimony, cadmium, copper, mercury and zinc via EPA Methods CLP SOW 787. A complete copy of the analytical results and the corresponding Tier II data packages are included in Appendix V.

A summary of the laboratory results is presented in Table I.

Table I

GENERAL SUMMARY TABLE:
POST-EXCAVATION SAMPLING ANALYTICAL RESULTS

OCTOBER 31, 1989
FIELD SAMPLES

Sample Designation	WPB-PE1	WPB-PE2	WPB-PE3	WPB-PE4
Base/Neutral Target Compounds Total Concentration (µg/kg)	ND	ND	ND	ND
Base/Neutral Tentatively Identified Compounds Total Concentration (µg/kg)	550	590	740	420
Petroleum Hydrocarbons (Dry) Total Concentration (mg/kg)	15	17	12	23
Polychlorinated Biphenyls (PCB's) Total Concentration (µg/kg)	ND	ND	ND	ND
Antimony (mg/kg)	<6.59	<6.59	<6.52	<6.52
Cadmium (mg/kg)	<0.55	<0.55	<0.54	<0.54
Copper (mg/kg)	10.6	11.9	18.5	11.7
Lead (mg/kg)	<6.59	<6.59	14.0	<6.52
Mercury (mg/kg)	<0.11	<0.11	<0.11	<0.11
Zinc (mg/kg)	17.6	25.9	30.9	23.2

160,000 Gallon Above Ground Storage Tank

Final post-excavation samples were collected on July 13, 1990 and analyzed at our laboratory in Ossining, New York. The samples were analyzed for PHC following Method 418.1 (Ref. Methods for Chemical Analysis of Water and Waste-600/4-79-002 as modified by NJDEP-BISE) and for PPVO +15 following EPA Methods 624 and 8240. RMC Environmental Services' Environmental Chemistry Laboratory in Pottstown, Pennsylvania analyzed the post-excavation samples for the final Priority Pollutant Base/Neutral Compound analysis via EPA Methods 625 and 8270. A complete copy of the analytical results and the corresponding Tier II data packages were included in our report dated September 11, 1990.

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In your letter dated December 26, 1990, Item 1a. requested the Initial and Continuing Calibration data for the volatile organic analysis of the post-excavation samples, PE-1, PE-2 and PE-3. This information is included in Appendix VI of this report. Item 1b. indicated that the Tier II data submission for the Base/Neutral analysis of the post-excavation samples, PE-1, PE-2 and PE-3 were incomplete. These samples were analyzed in our laboratory in Ossining, New York to preliminarily indicate the levels of Base/Neutral Compounds present in excavation. At that time, the laboratory was not certified to perform this analysis for New Jersey projects and a Tier II data package was not assembled. Based upon the results from the preliminary analysis, additional post-excavation samples were collected in the same location as PE-1, PE-2 and PE-3 and were designated as CRP-PE1, CRP-PE2 and CRP-PE3. These samples were analyzed by RMC Environmental Services laboratory in Pottstown, Pennsylvania and a Tier II data package was assembled and submitted with our September 11, 1990 report. The analytical results from post-excavation samples CRP-PE1, CRP-PE2 and CRP-PE3, not from PE-1, PE-2 and PE-3, were used to conclude that residual Base/Neutral compounds were not present in the excavation.

A summary of the laboratory results from July 13, 1990 is presented in Table II, from August 17 in Table III and from August 22, 1990 in Table IV.

Table II

GENERAL SUMMARY TABLE:
POST-EXCAVATION SAMPLING ANALYTICAL RESULTS

JULY 13, 1990
FIELD AND QA/QC SAMPLES

Description (Sample Designation)	(WPB-PE1)	(WPB-PE2)	(WPB-PE3)	Trip Blk. (WPB-TB10)	Fld. Blk. (WPB-FB11)	Fld. Dupl. (WPB-PE3A)
Volatile Organic Target Compounds Total Concentration (µg/l)	93.2	63.7	82.2	196	114	85.5
Volatile Organic Tentatively Identified Compounds Total Concentration (µg/l)	8	ND	9	19	19	ND
Base Neutral Target Compounds Total Concentration (µg/l) (Preliminary Screening)	10	21.6	11	N/A	15	22.5
Petroleum Hydrocarbons (Dry) Total Concentration (mg/kg)	182	13	17	N/A	0.19	15

Table III

GENERAL SUMMARY TABLE:
POST-EXCAVATION SAMPLING ANALYTICAL RESULTS

AUGUST 22, 1990
FIELD AND QA/QC SAMPLES

Description (Sample Designation)	(WPB-PE4)	Fld. Dupl. (WPB-PE4A)	Fld. Blk. (WPB-FB16)
Petroleum Hydrocarbons (Dry) Total Concentration (mg/kg)	16	15	0.26

Table IV

GENERAL SUMMARY TABLE:
POST-EXCAVATION SAMPLING ANALYTICAL RESULTS

AUGUST 17, 1990
FIELD AND QA/QC SAMPLES

Description (Sample Designation)	(CRP-PE1)	(CRP-PE2)	(CRP-PE3)	Fld. Blk. (CRP-FB15)	Fld. Dupl. (CRP-PE3A)
Base Neutral Target Compounds Total Concentration (µg/l)	ND	ND	ND	ND	ND
Base Neutral Tentatively Identified Compounds Total Concentration (µg/l)	1070	410	700	8	500

Project Summary and Conclusions:

Previous to this clean-up phase, other areas of concern were addressed. Soil was also excavated and removed for disposal from around the former underground storage tanks. The storage tanks contained mineral oil, hydraulic oil and fuel oil. In the NJDEP letter dated December 29, 1988, no further remediation associated with these tanks was required and permission to backfill the excavation pits was given. Groundwater sampling was conducted in five (5) monitoring wells located along the north-eastern side of the building. The laboratory analysis of the groundwater samples indicated that the site was not attributing to the general low level of groundwater contamination which according to the well search is prevalent throughout the area around the site.

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The level of lead detected in the site soils which were excavated from the drum storage area and from beneath the fill pipe to the above ground storage tank was slightly above the RCRA threshold level and classified the soil as a RCRA hazardous waste. The soil was analyzed according to the EP Tox method and TCLP method and the level of lead was detected at 5.02 ppm and 5.08 ppm. The RCRA threshold limit is 5.00 ppm, however the NJDEP Action Level for lead in soil is between 250 - 1000 ppm. While the EP Tox and the TCLP methods do not indicate total levels, post-excavation samples collected from the drum storage area were analyzed for Priority Pollutant Lead which indicated a total level. The results from the post-excavation sample analysis indicated that the highest detected level of lead was 14 $\mu g/kg$ (ppb). Almost equal levels of lead were detected in each area during the waste classification analysis, thus indicating that the level of lead is characteristic of the site soils. Similarly, the detected level of lead in the post-excavation samples collected from the drum storage area can be assumed to be characteristic of the site soils, thus indicating that the residual level of lead characteristic of the site soils is below the NJDEP Action Level.

With the completion of the remedial work in the vicinity of the drum storage area and beneath the fill pipe to the 160,000 gallon above ground storage tank, all the remedial work which was required by the NJDEP has been completed.

If you have any questions regarding this information or require additional information, please contact us at (914) 762-9000.

Sincerely,
HAZARDOUS WASTE ENGINEERING CONSULTANTS

Leonard H. Robbins IV
Project Manager

LR/gc
f:wpbfinal.rep

MILESTONE DATES
Whippany Paper Board, Inc.
ECRA Case # 85193

March 22, 1989	-	"Groundwater Test Results and Proposed Clean-Up Plan" was submitted by HWEC to the NJDEP. Report include the groundwater sampling results and the proposed clean-up plan. The clean-up plan addressed the excavation of the contaminated soil associated with the Drum Storage Area and the fill pipe to the 160,000 gallon Fuel Oil Storage Tank.
October 31, 1989	-	Soil was excavated from the Drum Storage Area and in the beneath the fill pipe to the 160,000 gallon Fuel Oil Storage Tank. Post-excavation samples were collected from both excavations. The laboratory results indicated that the remaining level of targeted compounds were below the respective NJDEP action levels in the drum storage area. The results also indicated that PHC contaminated still remained within the excavation beneath the fill pipe.
November 29, 1989	-	HWEC submitted a letter to the NJDEP which addressed the cost of the ECRA project to date and the expected cost to conclude the project. The cost to date was estimated to be approximately $ 75,000.00 and the cost to complete the remaining work was estimated to be approximately $ 30,000.00.
December 22, 1989	-	Additional soil was excavated from beneath the fill pipe. Post-excavation sampling results indicated that PHC contamination still remained within the excavation.
January 30, 1990	-	Additional soil was excavated from beneath the fill pipe. Post-excavation sampling results indicated that PHC contamination still remained within the excavation.
	-	The soil previously excavated from the Drum Storage Area and from beneath the fill pipe was removed from the site to be disposed of in a landfill.

January 31, 1990	-	NJDEP clean-up plan approval letter was published. The letter addressed the acceptable clean-up levels, the excavation of the contaminated soil and the subsequent post-excavation sampling associated with the Drum Storage Area and the 160,000 gal. Above Ground Storage Tank, the Transformer Area, QA/QC Review and the Groundwater. In the section addressing the site groundwater, the letter states that no current evidence requires additional groundwater investigation.
February to March	-	Groundwater level in the excavation beneath the fill pipe prevented the excavation of additional soil. Additional excavation deferred until the groundwater level sufficiently decreases.
March 22, 1990	-	HWEC submits a progress report to the NJDEP. The report addressed the clean-up plan implementation to date. Information regarding the previous sampling conducted around the Transformer Pad, the additional QA/QC information and the Monitoring Well information was included with this letter.
March 23, 1990	-	Additional soil was removed from the excavation. The level of the groundwater interfered with the successful removal of the contaminated soil. Laboratory analysis of the post-excavation samples collected subsequent to the removal of the additional soil indicated that PHC contamination still remained within the pit.
July 13, 1990	-	Additional soil was removed from the excavation beneath the fill pipe. The total amount of soil removed from this area is approximately 26 cubic yards. Laboratory analysis of the post-excavation samples indicated that the detected level of PHC and PPVO+15 was below the NJDEP action levels, except WPB-PE1 had a detected level of PHC above the action level.
August 1, 1990	-	NJDEP published a letter stating the project had been assigned to Mr. John Graham of the Cleanup Oversight Section. The letter also stated that progress reports should be submitted at the end of the first week of every month. The guidelines for the submission of the progress reports and the final report was included with this letter.

August 17, 1990	-	Additional post-excavation samples were collected from the same locations as on July 17, 1990. These samples were analyzed for PPB/N+15. Laboratory results indicated that no PPB/N+15 compounds were present above the NJDEP action levels.
August 22, 1990	-	Additional soil was removed from the area of the excavation pit represented by WPB-PE1. Laboratory analysis of the post-excavation sample indicated the PHC contamination had been removed from that area.
August 27, 1990	-	HWEC submitted a progress report to the NJDEP. The report included the remedial work to date, the percent of work completed and the estimated cleanup cost since January 1, 1990.
August 30, 1990	-	The excavation beneath the fill pipe was lined with (2) layers of 6 mil plastic and backfilled with certified clean fill.
September 11, 1990	-	HWEC submitted a report of the laboratory results from the analysis of the post-excavation samples collected from the excavation pit beneath the fill pipe.
October 24, 1990	-	HWEC submitted a progress report to the NJDEP. The report included a summary of the waste classification information for the soil excavated from beneath the fill pipe. The level of TCLP lead in the soil exceeded the RCRA threshold limits.
November 12, 1990	-	HWEC submitted a progress report to the NJDEP. The work to date, the percent of work completed and the estimated clean-up cost to date.
September to December		HWEC submitted the waste classification information to disposal facilities for approval to dispose of the material. The acceptance was delayed because of the changing TCLP regulation which governed the disposal of RCRA hazardous waste.
December 7, 1990	-	The soil which was stored on site in the roll-off dumpster was transferred into two plastic lined roll-off dumpsters which were NJ licenced to haul RCRA hazardous waste. The soil was transported for disposal at the Chemical Waste disposal facility in Model City, New York. Approximately 17.08 tons of soil were removed for disposal.

December 13, 1990 -	HWEC submitted a progress report to the NJDEP. The work to date, the percent of work completed and the estimated clean-up cost to date.
December 26, 1990 -	NJDEP issued a letter regarding our "Site Remedial Activities Report" dated September 11, 1990. The letter requested that specific information be included in the final report. The letter also requested that Whippany demonstrate that no residual lead contamination remains on the site.
December 27, 1990 -	HWEC received verbal confirmation that the first load of soil had been successfully stabilized and that the landfill would accept the second load.
December 31, 1990 -	The remaining 10 tons of soil excavated from beneath the fill pipe were transported to the disposal facility for stabilization and disposal.

Let's protect our earth

RECEIVED
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DIVISION OF
WASTE MANAGEMENT
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JUL 18 1986

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

MEMORANDUM

To: Robert Dante through Joseph Galley, Supervisor, Bureau of Industrial Site Evaluation, DHWM

From: Theodore J. Hayes through Walter S. Samsel, Section Chief, Bureau of Ground Water Pollution Analysis, New Jersey Geological Survey

Subject: Review of the Whippany Paper Board Company Sampling Plan, dated 27 May 1986, for One Ackerman Avenue, Clifton, Passaic County - ECRA - Case#85-193

Review

Five monitoring wells were installed at this site to define ground-water flow and identify ground-water quality. Sampling of ground water has identified contamination of ground-water from on-site spills. Monitoring well number MW-4 exceeds the interim corrective action level for base/nuetral compounds, set forth in the 19 December 1985 memorandum by John Trela (Attachment), Bureau of Ground Water Quality Management, with a total concentration of 105.0ppb for targeted compounds and an estimated total concentration of 645ppb for non-targeted base/nuetrals. Monitoring wells MW-3 and MW-4 are above the interim ground-water corrective action level for acid extractables with estimated total concentrations for non-targeted acid extractables of 177.9 and 305.5ppb, respectively. There was no surrogate recovery for the base/nuetral and the acid extractable fractions in monitoring well MW-2, potentially indicating that the concentrations of the reported parameters may be underestimated and that false negatives may have been reported.

All sampled monitoring wells had detected concentrations in the ground water approximately twice the interim corrective action criteria for the Group A volatile organic compounds; however, with the exception of monitoring well MW-5, all the sampled monitoring wells have comparable contaminant concentrations to the method blanks. Therefore, the detected contaminants may be false positives. In monitoring well MW-5, these same parameters, methylene chloride and chloroform, were detected at concentrations of 24.0 and 14.0ppb in ground-water samples; and, at concentrations in the method blanks of 9.7 and 9.4ppb, respectively.

The text of the submittal attempts to minimize the significance of ground-water contamination, because many of the compounds detected were non-targeted compounds, identified in the library search and not in sufficient concentrations to require treatment beyond the proposed soil clean-up plan. It must be noted that the identified compounds were in sufficient concentrations to exceed any and all of the established interim corrective action criteria utilized by the various NJDEP agencies; therfore, ground-water contamination must be remediated.

Recommendations And Comments

This submittal is unacceptable, both as a sampling plan and as a clean-up plan. The following must be incorporated into a sampling plan addendum:

1. This site is bordered by the Passaic River to the east and the higher elevation Dundee Canal to the west. Five monitoring wells were installed. On the east side of the site monitoring well numbers 2 to 5 are located along the bank of the Passaic River amd monitoring well number 1 borders the Dundee Canal on the western perimeter of the site. The measured static water level from monitoring well number 1 is necessary to determine ground-water flow directon by triangulation with the other on-site monitoring wells. Triangulation between monitoring well numbers 2 to 5 is not possible since they are oriented in an approximate straight line, located along the bank of the Passaic River. Monitoring well number 1 is screened entirely in the unsaturated zone (monitoring well number 1 is dry); therefore, triangulation to define ground-water flow is not possible. Monitoring well number 1 must be sealed and a replacement well must be constructed with 15 feet of screen: screened from 5 feet above to 10 feet below the water table. The replacement well must be located immediately adjacent to the southeast side of the tank excavation. The present submittal attempts to minimize monitoring well number 1 being dry. The text pointed out that soils contamination was not identified at that water table; however, it must be noted that soil sampling may not have extended to the water table. It must be noted, even if free product has not flowed to the water table, that gravitational water percolating through residually contaminated soils, containing entrained product, can contaminate underlying soils below method detection levels and simultaneously contaminate ground water above, both, action levels and method detection levels.

2. Based upon the assumption that ground-water flow is to the east-southeast toward the Passaic River, monitoring well number 1 was located approximately 60 feet upgradient of the 1,000-gallon leaking underground No. 2 fuel oil tank.

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Monitoring well number 4 was located side gradient of the 3,000-gallon mineral spirits tank and monitoring well number 5 was located side gradient of the 4,000-gallon hydraulic oil tank. These wells should have been located in the assumed downgradient direction; if the wells had been located immediately downgradient of the tankfields higher concentrations likely could be expected. The well locations were to be field determined with a staff member of the New Jersey Geological Survey (NJGS). Well locations were not finalized with the NJGS. An initial inspection was made, but no well locations were finalized. In the future, all monitoring well locations must be determined in consultation with the assigned NJGS geologist and the NJGS geologist must be notified 10-working days prior to future well installations.

3. Ground-water analysis of water samples collected from monitoring well numbers 3, 4, and 5 has identified contamination in excess of interim corrective action criteria. Whippany Paper Board must fully define the vertical and horizontal extent of ground-water contamination at these areas as well as future identified areas. The vertical gradient may be significant due to the sheet pilings at the river bank.

4. Soil sampling and analysis identified soils contamination at the above ground 160,000-gallon No. 6 fuel oil tank and at the drum storage area; therefore, a monitoring well must be installed at each of these locations as indicated to Whippany Paper Board in the NJDEP letter of 7 March 1986.

5. An analysis of the mineral spirits and hydraulic oils used on site was to be provided so that additional parameters could be added to the required ground-water analysis. This was not provided, it still must be provided so that future analyzes include these parameters. A second round of ground-water sampling and analysis must be done; it must include these parameters and the priority pollutant plus 40, less the pesticide fraction and metals.

6. The requested documentation was not provided as to whether the two on-site transformers ever contained polychlorinated biphenols (PCBs), nor were the soils sampled and analyzed for PCBs as the required alternative to the documentation.

7. In the future, mud rotary must not be used to install monitoring wells screened across the water table to define if free product is present.

TJH:tjh

Attachment

946010082

ABK000211

cc: Brian Sagorka, BEERA, DHSM
HK/WFA/file

ABK000213

946010083

testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

June 19, 1985

Whippany Paper Board Co.
Mr. Robert Desiderio
1 Ackerman Avenue
Clifton, NJ 07011

RE: Petroleum Hydrocarbon Analysis
JOB # H04437

Dear Mr. Desiderio,

This report details the results of analyses performed on samples taken from the excavation pits after the storage tanks were removed. The site locations are:

LAB # H04437 A and B
TANK #2 - Center excavation of three excavations located on the east side of the building. Two samples were taken at 18" depth from the bottom of the pit, samples B-1 (A) and B-2 (B). Soil was a dense, moist, greyish sand. A strong odor of mineral spirits was detected at both sites.

LAB # H04437 C, D, and E
TANK #3 - Excavation pit located on south east side of building. Three samples, B-1 (C), B-2 (D) and B-3 (E), were taken at a 15" depth at three locations from bottom of pit. Soil is a mixture of dark sand with brick and aggregate. No odor was detected in any of the three samples.

LAB # H04437 F and G
TANK #1 - Excavation area located on north east side of building. Two samples were taken B-1 (F) and B-2 (G) from the bottom of the pit. The soil is a hard packed construction rubble, including brick, sand and concrete aggregates. We could only sample the top inch of soil with the equipment on hand. There was a slight petroleum product odor at each sample area.

LAB # H04437 H and I
TANK #4 - Excavation area located near boiler room on north west side of building. The site is a fine moist sand with no rubble or soil. There was a strong fuel oil ordor and the sand appeared saturated with this product. Two samples were taken, B-1 (H) and B-2(I).

The analyses, as Petroleum Hydrocarbons, indicated varying degrees. Tank #3 shows only trace levels while Tank #4 shows saturated levels. Cleanup will be required for at least three of the four tank sites.

We can discuss the ECCRA requirements for the site at some future date. In the mean time, I hope this report is sufficient for your immediate needs.

Sincerely,

Richard Scheible,
Vice President

RS:sw

Enclosures

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

50 Passaic Avenue, Fairfield, NJ 07006 • (201) 882-8377

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

May 27, 1986

State of New Jersey
Department of Environmental Protection
Division of Waste Management
Hazardous Site Mitigation Administration
CN 028, Trenton, NJ 08625

Attention: Mr. Anthony McMahon, Chief
Bureau of Industrial Site Evaluation

Re: ECRA Case #85-193
Whippany Paper Board Company
One Ackerman Avenue
Clifton, New Jersey

Dear Sir:

We have completed the soil and groundwater study conducted at the Whippany Paper Board Company, Inc. (hereinafter WPBC), One Ackerman Avenue Clifton, New Jersey with respect to the ECRA Case #85-193.

The program included: the installation and development of the monitoring wells, collecting water samples and additional soil samples, and performing chemical analyses for the four (4) tank excavations, the drum storage area, and the one hundred sixty thousand (160,000) gallon above ground storage tank.

The sampling plan dated February 4, 1986, was reviewed and approved (as noted) by the New Jersey Department of Environmental Protection, Division of Waste Management as indicated in a letter from Mr. A. McMahon to Mr. Michael Izmirly of the WPBC dated March 7, 1986 (Pg. A-1).

In this report we present our findings and our revised soil clean-up plan.

Groundwater Study

Five (5) monitoring wells were constructed on March 31 and April 1, 1986, in accordance with the New Jersey Department of Environmental Protection, Unconsolidated Monitoring Well Specifications (See A-4). The wells were installed by a licensed well driller at locations illustrated on the attached site plan (See D-1). Well permits were obtained from the New Jersey Department of Environmental Protection Division of Water Resources, Trenton, NJ prior to drilling (See A-6).

Drilling procedures included advancing and maintaining the bore hole using the mud rotary method and samples were obtained using a standard split spoon. The samples were classified by a geologist and recorded on bore-hole logs (See TB-1 through TB-5). Groundwater was generally encountered at ten (10) feet below the surface. The depths of the monitoring wells extended to approximately twenty (20) feet below the surface thereby leaving ten (10) feet of well screen below the groundwater level and five (5) feet above.

Each well was developed by the bailing technique prior to sampling and after a period of two weeks from the date of construction. On April 14, 1986, four (4) of the five (5) monitoring wells were purged and sampled. The groundwater elevation was below the well bottom elevation (+8.75') in MW-1, therefore, the well could not be developed nor sampled. MW-2 through MW-5 were purged of five (5) times of the well volume after which the water samples were collected three (3) feet below the static water level with a bailer. Table #1 on the following page lists the groundwater elevations, ground surface elevations, product levels, the top of casing elevations and the dates of measurements. Drawing D-1, illustrates the groundwater contours of the site based on the water levels in the monitoring wells, the Passaic River and the Dundee Canal.

The water samples, including travel blanks, and duplicates, and a chain-of-custody record were hand delivered to ICM, Inc. of Randolph, New Jersey where the samples were analyzed for volatile organics (VO), xylene isomers (EPA Method 624) plus 15; base neutrals plus 15; acid extractables (EPA Method 625), and petroleum hydrocarbons (EPA Method 418.1).

TABLE #1

Groundwater Measurements

Date	Monitoring Well Number	Top of PVC Casing (ft)	Ground Elev.(ft)	Static Water Elevation (ft)	Product Thickness(ft)
4/14/86	1	30.00	27.33	None Encountered	0.00
	2	19.03	16.28	6.11	0.00
	3	16.37	16.12	5.62	0.00
	4	18.45	15.87	4.54	0.00
	5	18.47	15.97	5.39	0.00
5/9/6	1	30.00	27.33	None Encountered	0.00
	2	19.03	16.28	4.61	0.00
	3	16.37	16.12	4.82	0.00
	4	18.45	15.87	4.79	0.00
	5	18.47	15.97	6.05	0.00

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Date	Monitoring Well Number	Top of PVC Casing (ft)	Ground Elev.(ft)	Static Water Elevation (ft)	Product Thickness(ft)
5/24/86	1	30.00	27.33	None Encountered	0.00
	2	19.03	16.28	5.86	0.00
	3	16.37	16.12	5.87	0.00
	4	18.45	15.87	5.62	0.00
	5	18.47	15.97	5.98	0.00

Additional Soil Sampling

Two shallow test borings (B-28 & B-29) were drilled on April 14, 1986 in the drum storage area located along the west wall of the building as illustrated on the attached site plan (See D-1). One sample was taken in each bore hole at the eighteen (18) inches to twenty-four (24) inches interval and were collected in clean volatile organic vials, properly sealed and labelled. All sampling equipment was decontaminated between sampling by the following sequence of steps: wash with non-phosphate detergent, rinsed with deionized water, rinsed with 10% nitric acid solution, rinsed with deionized water, rinsed with acetone, air dried and rinsed again with deionized water.

A test pit was excavated on April 15, 1986, near the stained soils at the one hundred sixty thousand (160,000) gallon above ground fuel oil tank. The test pit was excavated to five and a half (5 1/2) feet below the surface and groundwater was not encountered. The test pit revealed a five (5) inch crushed stone layer at eight (8) inches below the surface. This layer contained a heavy grade fuel oil that we believe was spilled during filling the tank. The spilled fuel oil is heavily concentrated in the stone layer and resembled the viscosity of tar. Three (3) samples were collected at depths of twenty (20") inches, forty (40") inches and fifty eight (58") inches respectively, and identified as samples B30 (1- 3). It was not necessary to excavate the test pit deeper than sixty-three (63) inches because the soil at that depth revealed no signs of contamination, by odor or by discoloration.

All soil samples and a chain-of-custody record were hand delivered to ICM, Inc. of Randolph where the samples taken from the drum storage area were analyzed for volatile organics + 15 (EPA Method 624) and the samples taken from the 160,000 gallon fuel oil tank were analyzed for petroleum hydrocarbons, Solid Waste Manual 846, Soxhlet Extraction Method 3540 followed by Method 418.1.

Laboratory Results - Water Samples

The laboratory results for the water samples from MW-2 through MW-5 indicate trace concentrations of volatile organics and base neutral/acid extractable compounds. The compounds detected were generally non-targeted compounds and tentatively identified by the library search.

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It is our opinion that these compounds are not in sufficient concentrations to require treatment beyond our proposed soil clean-up plan as outlined in this report.

It should be noted, however, that during the analysis of the base neutral/acid extractable compounds for the sample from MW-2, the extract showed no surrogate recovery, therefore, the confidence in the results representing that sample is uncertain. However, the results of that sample are not dissimilar to the analyses for MW-3 through -5, lending to the credibility of the results and thereby indicating that the addition of the surrogate was inadvertently omitted from the extract rather than an incomplete analysis.

The petroleum hydrocarbon analyses for the water samples from MW-2 through 5 were found to be .7, .5, .5 and .5 ppm. These values are below the NJDEP thresholds and therefore treatment is not required as a results of these tests.

Laboratory Results - Soil Samples

The soil samples collected from the boring B-28 and B-29 were found to contain trace quantities of volatile organics. The concentrations found in each sample are below the NJDEP threshold. Therefore, treatment is not required as a result of these tests.

The soil samples collected from the test pit near the 160,000 gallon fuel oil tank revealed concentrations of petroleum hydrocarbons of 64 mg/kg at twenty (20) inches below the surface, 71 mg/kg at forty (40) inches below the surface and less than 19 mg/kg at fifty-eight (58) inches below the surface. Although these concentrations are below the PHC threshold, we are proposing limited excavation simply based on the inspection of the test pit.

The depth of excavation is not anticipated to exceed twenty (20) inches based on these results.

Discussion

The primary purpose of this report was to identify groundwater contamination that may have occurred as a result of leakages from the various buried and surface storage tanks.

In addition, we were requested to provide representative tests for the soil from the drum storage area and from beneath the fill pipe of the 160,000 gallon above ground storage tank. Since contamination was not identified in the drum storage area, only the soil from around the above ground tank is included in the clean-up plan.

946010091

ABK000221

The remaining issue for discussion is groundwater contamination. The groundwater measurements were recorded over a period of nearly two (2) months. During that period there was no measureable water level in MW-1. MW-1 is roughly thirty (30) feet from the Dundee Canal in which the phreatic surface is at elevation +24.33'. The bottom of MW-1 is at elevation +8.75'. This condition is illustrated on the profile of the site section A-A on drawing D-2. The lack of water in MW-1 is attributed to low permeable lining in the canal surrounded by higher permeable soils. As a result, the seepage out of the canal is minimal and the water that does seep out is transmitted freely toward the Passaic River. The groundwater surface in vicinity of the excavation for the former 1,000 gallon fuel oil tank is estimated to be +8.00' and the bottom of the tank was at +21.35'.

Based on this information we conclude that the groundwater is not in contact with contaminated soil, therefore, there is no groundwater treutment required as a result of leakage from the 1,000 gallon fuel oil tank.

In addressing the groundwater contamination for MW 2-5 the water elevations indicate that groundwater was just below the tank bottom elevations in each location. However, the water analyses for volatile organics, acid and base neutral fractions indicate only trace concentrations of non-targeted compounds. As a result, we conclude that although the groundwater was in close proximity to the contaminated soil there is no evidence of significant contamination of groundwater.

In conclusion it is our opinion that the soil clean-up plan presented in the following section is all that is warranted and that no groundwater treatment is required.

Clean-up Plan

It has been determined by the soil sampling plan that petroleum hydrocarbon contamination as a result of leaking storage tanks has occurred onsite.

The vertical and horizontal extent of contamination was identified in our December 12, 1986 report. We propose to clean-up the soil contamination by excavation and hauling to a secure landfill.

The excavation will be limited in each tank location by one or more building walls. The excavations on the east side of the site will also be limited by the sheet pile retaining wall along the Passaic River. The excavatons will extend to the structures but would not undermine the foundation or create an unstable soil condition. Otherwise, the excavations will extend vertically and horizontally as required to achieve soil with a concentraton less than 100mg/kg of petroleum hydrocarbons.

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The excavation and hauling will be performed by Fairfield Maintenance Company. The soil will be excavated by a case 580 backhoe and loaded onto tandem dump trucks and hauled to the landfill. Groundwater, if encountered, will be pumped into fifty five gallon drums. The water will remain standing until any petroleum hydrocarbons that may be present have separated at which time the product will be collected and the water will be discharged into the sanitary sewer.

Landfill disposal approval for the soil is being sought at the Bailing Facility, North Arlington, New Jersey.

During the excavation and clean-up a representative from our office would conduct continuous inspections of the operation and collect additional soil samples for analysis.

The samples would be collected upon completion of the excavation. Six (6) samples would be collected from each excavation. Two (2) in the bottom along the centerline and equidistant from the wall and each other. One (1) sample would be taken from the base of each of the excavation walls. The samples would be analyzed for petroleum hydrocarbons in accordance with Method 418.1.

When the results indicate that the remaining soil contains less than one hundred (100) mg/kg of petroleum hydrocarbons he excavation will be backfilled.

If the remaining soil is tested and found to contain greater than one hundred (100) mg/kg of petroleum hydrocarbons then additional excavations will be performed until satisfactory results (<100 mg/kg) are obtained. A similar procedure is to be followed for the contaminated area at the fill pipe of the 160,000 gallon above ground storage tank.

Upon completion of the clean-up program we will submit a complete report including the log of events, additional test results and the dump slips.

Based on the calculated quantities of soil to be removed as determined by the borings we anticipate the cost of the clean-up plan to be as listed below.

Estimated Cost for Clean-Up

1.	Mobilization of men and equipment	$ 400.00
2.	Equipment for excavation and disposal of petroleum hydrocarbon contaminated soil at HMDC fill (6 days @ $7500.00/day to remove an estimated 650 cu.yds.	$15,000.00

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3.	Truck tariffs (44 trucks @ $325.00/truck)	$14,300.00
4.	Onsite engineering and supervision of excavation, preparaton of logs, samples, final report ($35.00/hr for estimated fifty (50) hours)	$ 1,750.00
5.	Professional engineering services for report preparation, supervision, telephone conversation, consultation ($50.00/hr for estimated eighty (80) hours)	$ 4,000.00
6.	Laboratory testing for dump approval and resampling for petroleum hydrocarbons to include (EP Toxicity, reactivity, corrosivity, ignitability - 6 samples; PHC - 30 samples)	$ 6,450.00
	Estimated Total:	$41,900.00

NOTE: The above cost does not include soil replacement or restoration of the site to be completed by owner.

If you should have any questions, please do not hesitate to call.

Sincerely,

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

Frederick A. Porcello, P.E.
President

FAP/rc

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→ Sal

LOWENSTEIN, SANDLER, KOHL, FISHER & BOYLAN

A PROFESSIONAL CORPORATION

COUNSELLORS AT LAW

65 LIVINGSTON AVENUE

ROSELAND, NEW JERSEY 07068

TELEPHONE (201) 992-8700

TELECOPIER (201) 992-5820

SOMERVILLE OFFICE

TELEPHONE (201) 526-3300

ALAN V. LOWENSTEIN
RICHARD M. SANDLER
BENEDICT M. KOHL
ARNOLD FISHER
JOSEPH LEVOW STEINBERG
MATTHEW P. BOYLAN
BRUCE D. SHOULSON
JOHN R. MACKAY 2ND
MARTIN R. GOODMAN
JOHN D. SCHUPPER
STEPHEN H. DERMER
MICHAEL L. RODBURG
ALLEN B. LEVITHAN
R. BARRY STIGER

GREGORY B. REILLY
PETER H. EHRENBERG
HOWARD S. DENBURG
STEVEN B. FUERST
THEODORE V. WELLS, JR.
GERALD KROVATIN
RICHARD D. WILKINSON
ALAN WOVSANIKER
KENNETH J. SLUTSKY
DAVID L. HARRIS
ZULIMA V. FARBER
WILLIAM P. MUNDAY
COLLEEN P. KELLY
RICHARD P. BOEHMER

DAVID W. MILLS
NORMAN W. SPINDEL
OF COUNSEL

LEE HILLES WERTHEIM
DANIEL J. BARKIN
GEORGE J. MAZIN
JAMES STEWART
ROBERT L. KRAKOWER
STUART S. YUSEN
KEVIN KOVACS
KEITH H. ANSBACHER
LAURA R. KUNTZ
ROBERT D. CHESLER
RICHARD F. RICCI
JOY M. MERCER
JOHN L. BERGER
ELIZABETH GASSER
LEE ANNE GRAYBEAL
PHYLLIS F. PASTERNAK
RICHARD NIEMIEC
FREDDA G. KATCOFF
LAURA CHIP CAREY
JOANNE M. CALANDRA
MICHAEL M. D'CICCO
MARY-LYNNE RICIGLIANO
LUCINDA P. LONG
DEBORAH R. FELDMAN
KATHERINE HERAS
MARY C. O'CONNELL
STEPHEN H. SKOLLER
DAVID W. FIELD
MARY JO REICH

ANN P. OSTERDALE*
NINA LASERSON DUNN
SANDRA SHULMAN GREENSTEIN
MARTHA L. LESTER
FRANK PERETORE
LINDA PICKERING
CAROL A. BURGENS
ROSALIND KENDELLEN
MICHAEL O'B. BOLDT
BETH ANN WILANSKY
JASON B. MEYER
JESSICA R. NACHEMAN
MICHAEL D. SCOTT
ROCHELLE B. GALIBER
SOLON L. KANDEL
VAL MANDEL
PAUL C. PAWLOWSKI
DENNIS F. GLEASON
RUSSELL J. PASSAMANO
ANTHONY J. REITANO
HOWARD A. TEICHMAN
LAWRENCE M. CZAPLEWSKI
DAVID B. GELFARB
ROBERT G. MINION
MATTHEW J. BRENNAN
KAREN GAYNOR KILLEEN
DEBBIE KRAMER GREGG

*N.Y. BAR ONLY

October 8, 1987

CERTIFIED MAIL/RRR

Ms. Barbara Strollo
Industrial Site Evaluation Element
New Jersey Department of
Environmental Protection
401 East State Street
Trenton, NJ 08625

Re: V. Ponte & Sons/Whippany Paper Board
Clifton Facility
1 Ackerman Ave., Clifton City
Passaic County
ECRA Case #85193

Dear Barbara:

Please be informed that the above-referenced sale of real property has been consummated and title has transferred to V. Ponte & Sons, ("Ponte"). Pursuant to the Contract of Sale, Ponte has agreed to assume the responsibility of achieving ECRA compliance in accordance with Whippany Paper Board's ACO. As the new owner, V. Ponte & Sons is anxious to proceed toward the final resolution of the above-referenced ECRA compliance effort.

Please be further advised that Ponte has already begun taking the first steps in this process by scheduling a meeting with project consultants Hazardous Waste Engineering Consultants, Inc. on October 9, 1987 to review requests and comments contained in an August, 1986 letter from your office. Please be assured that Ponte will employ its best efforts to assemble the proper technical information and prepare an implementation schedule that will then be submitted to your office in a timely fashion. After the meeting with the consultants, we will be able to provide you with an

October 8, 1987

approximate date by which your office can expect this response concerning the unresolved issues.

As Ponte has now assumed the compliance efforts in this matter, it is appropriate that this law firm be listed as the authorized agent. Would you please see that your office files are revised accordingly to direct communications from your office to my attention so that there will be no unnecessary delay in correspondence as this case progresses.

Thank you for the cooperation and patience your office has extended in this matter. As always, if you have any questions, please do not hesitate to call me.

Very truly yours,

Carol

Carol A. Surgens

CAS/mdlr

cc: Bower & Gardner
Attn.: Gregory R. Tapfar, Esq.

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

May 24, 1988

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Hazardous Site Mitigation Element
CN-028
Trenton, NJ 08625

Attention: Sal Balek
Case Manager

Re: Whippany Paper Board Company
Clifton, Passaic County, New Jersey
ECRA Case # 85-193

Dear Mr. Balek:

As requested by our client, V. Ponte and Son, 511 Canal Street, New York, New York, we have completed the Phase I soil clean-up program at the Whippany Paper Board Company, One Ackerman Avenue, Clifton, New Jersey, ECRA Case # 85-193.

In this report, we present the clean-up program, the post clean-up sampling methods, the test results and site evaluation.

Please refer to the sampling plan dated July 25, 1985 and subsequent revisions dated December 12, 1985, February 4, 1986, and May 26, 1986 for details leading up to the disposal of the oil contaminated soil.

Clean-up Program

The soil clean-up program for this project was initiated by National Waste Disposal Inc. of Trenton, New Jersey on May 11, 1988 under the direct supervision of Hazardous Waste Engineering Consultants, Inc.

The areas of environmental concern included in the soil clean-up program are as follows:

A) Excavation 1: Former 1,000 gallon mineral spirits tank

B) Excavation 2: Former 3,000 gallon mineral spirits tank

C) Excavation 3: Former 4,000 gallon hydraulic oil tank

D) Excavation 4: Former 1,000 gallon fuel oil tank

E) 160,000 gallon above ground fuel oil storage tank

F) Former drum storage area

On May 11, 12, 13, 16 and 18, 1988, approximately one thousand one hundred and eighty (1180) cubic yards of PHC contaminated soil was excavated and removed from the areas listed above.

Daily events logs were recorded describing each day's activities and can be found in Appendix I of this report. In addition, copies of the Bills of Lading, documenting each load of PHC contaminated soil delivered to the landfill, can be found in Appendix II.

In summary, the petroleum hydrocarbon contaminated soil, in the locations identified in the sampling plan, was excavated with either a 580 case backhoe, a crane backhoe and/or a case loader. The excavated soil was then placed into tandem trucks which regularly departed the site en route to the Breitenstine Landfill located in Waynesburg, Ohio.

All excavations were continuously monitored by our staff using a vapor analyzer field instrument to detect hydrocarbon vapors. Upon completion of each excavation, the entire pit was screened with the vapor analyzer to assure that the removal of 100 ppm and greater PHC containing soil was complete. The instrument utilized in the field is called the Sniffer 303 combustible gas detector manufactured by Bacharach, Inc.

Excavation 1

The excavation of PHC containing soil at excavation 1 is described in the daily events logs, Day 2, Day 3, Day 4 and Day 5. The final depth of the excavation was measured at approximately fourteen and one half feet below the surface. Ground water was encountered at a depth of roughly twelve feet.

The open excavation produced an unstable condition along the exterior building wall therefore, removal of soil along the foundation was limited to prevent undermining the footing and subsequent structural damage.

Because of the undermining potential, the PHC contaminated soil was removed in areas where excavation of these materials did not affect the stability of the structure. Post excavation samples were collected at this depth to confirm field observations.

Photographs taken during the removal of PHC contaminated soil at this location can be seen on Plates 1 and 2.

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Excavation 2, 3 and 4

The excavation and removal of PHC contaminated soil at excavations 2, 3 & 4 are described in the daily events logs Day 1, Day 2, Day 3 and Day 5.

The depths of the excavations ranged from eight (8) feet (Excavation 4) to ten and one half feet (Excavations 2 and 3). Groundwater was not encountered during the removal procedures.

After the removal of PHC containing soils in excavations 2, 3 and 4, the excavation walls and floor were screened with the vapor analyzer. The field results indicated vapor readings of less than 100 ppm in each pit. However, to prevent undermining the structure, a limited amount of PHC contaminated soil was removed from the western wall in excavation number 2 and 3 and the eastern and southern wall of excavation number 4.

The materials encountered along the embankments and at a depth of ten and one half feet in excavations 2 and 3 were classified as fill. The soils consisted of bricks, concrete, cinders and metal intermixed with sand and gravel. Strata changes were identified where the fill soils were found overlaying a brown clayey sand or a brown sand and gravel.

The materials encountered in excavation 4 were described as coarse to fine sand with traces of silt and coal fragments. The area of the site surrounding excavation 4 was formerly used as the coal storage area equipped with an abandoned coal chute which connects the Dundee Canal to the mill.

Photographs taken during the removal of PHC contaminated soil at Excavations 2, 3 and 4 can be seen on Plates 3-6, 7, and 8-9, respectively.

Above Ground 160,000 Gallon Fuel Oil Tank

The oil laden soil beneath the fill pipe at the 160,000 gallon fuel oil tank was removed with a hand shovel. Excavaion of the required ten (10) feet by six (6) feet by eighteen (18) inch deep area located in front of the fill pipe was attempted. When ground was broken with the loader to a depth of seven (7) inches below the surface, water quickly filled the opening. The soil was replaced and soil samples were not collected, therefore, additional excavation and testing is anticipated. See daily events log Day 3 for activities.

Drum Storage Area

Twelve (12) inches of soil was removed from the drum storage area by means of digging the contaminated materials with a hand shovel. A concrete pad was encountered along the building wall at a depth of twelve inches thereby preventing additional removal. Refer to daily

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events log, Day 5, for activities in this area.

A post excavation sample was collected at a depth of twelve (12) inches below the surface, along the edge of the concrete and in the excavated area. The sample was analyzed for PP+40 and PHC. The test results for the PP+40 analysis can be found in Appendix IV of the report.

The PHC test results of the post excavation sample, VP-DS1, has indicated a PHC concentration of 1,340 mg/kg. Based on these results, additional excavation in this area will be necessary. A post excavation sample will be collected and analyzed for PHC prior to backfilling the opening.

Post Clean-up Sampling

Excavations 1, 2, 3 and 4:

The petroleum hydrocarbon containing soil identified in the sampling plan was excavated and removed from the site. Excavations 1 through 4 remain open and are currently barricaded and covered. Although the department requires excavations to be filled within a seven (7) day period, we are requesting a review of post excavation sample results prior to backfilling.

On May 16 and May 18, 1988, post excavation soil samples were obtained. Three (3) samples were collected from excavation 1, eight (8) samples from excavation 2, eight (8) samples from excavation 3 and four (4) samples from excavation 4. The post excavation sample location plans can be found on pages 12 to 15.

Each sample was tested for Total Petroleum Hydrocarbons by first extracting in accordance with SW 846 Soxhlet Extraction Method 3540 followed by infrared analysis method 418.1.

Between sampling, the hand tools were cleaned with the following sequential series of decontamination procedures: washed with non-phosphate detergent, rinsed with tap water, rinsed with deionized water, rinsed with acetone, air dried, and rinsed with deionized water.

The samples were collected in laboratory cleaned eight (8) ounce glass jars with Teflon lined lids and Volatile Organic Vials, clearly labeled and properly sealed. All samples were chilled with blue ice and placed in a cooler for transporting to the laboratory. A chain-of-custody record accompanied each set of samples.

Prior to submitting the samples to the laboratory each sample was screened utilizing the Sniffer 303, vapor analyzer. The vapor readings along with the analytical results are listed in the table on the following page.

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Quality Control Samples

Quality control samples were collected and tested during the investigation to assure laboratory results and proper field sampling techniques.

Two (2) sets of field duplicates were collected and analyzed for petroleum hydrocarbons and are identified as VP-E3S1 and VP-E3S1A and VP-E2S3 and VP-E2S3A.

The laboratory quality control analyses consist of laboratory duplicates, method blanks and spiked samples. The quality control results are included in the summary of test results which follows:

SUMMARY OF RESULTS

Sample No.	Date Collected	Date Analyzed	Petroleum Hydrocarbons (mg/kg, dwb)	Vapor Analyzer Readings (ppm)
Excavation 1				
VP-E1S1	5/16/88	5/17/88	5	80
VP-E1S2	5/16/88	5/17/88	7	100
VP-E1S3	5/16/88	5/18/88	18	60
Excavation 2				
VP-E2S1	5/16/88	5/18/88	674	40
VP-E2S2	5/16/88	5/18/88	811	30
VP-E2S3	5/16/88	5/18/88	52.1	40
VP-E2S3.1	5/16/88	5/17/88	49.4	60
VP-E2S4	5/16/88	5/18/88	48.8	60
VP-E2S4.1	5/16/88	5/17/88	98.0	100
VP-E2S5	5/16/88	5/17/88	45.0	60
Excavation 3				
VP-E3S1	5/16/88	5/18/88	281	40

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Sample No.	Date Collected	Date Analyzed	Petroleum Hydrocarbons (mg/kg, dwb)	Vapor Analyzer Readings (ppm)
VP-E3S2	5/16/88	5/18/88	379	50
VP-E3S3	5/16/88	5/18/88	48.7	40
VP-E3S4	5/16/88	5/18/88	241	40
VP-E3S4.1	5/16/88	5/17/88	411	70
VP-E3S5	5/16/88	5/17/88	119	80
VP-E3S5.1	5/16/88	5/17/88	90.4	80
Excavation 4				
VP-E4S1	5/16/88	5/18/88	155	30
VP-E4S2	5/16/88	5/18/88	55.3	40
VP-E4S3	5/16/88	5/17/88	127	80
VP-E4S4	5/16/88	5/17/88	2990	10
Field Duplicate				
VP-E2S3	5/16/88	5/18/88	281	---
VP-E2S3A	5/16/88	5/31/88	279	---
VP-E3S1	5/16/88	5/18/88	52.1	---
VP-E3S1A	5/16/88	5/31/88	90.0	---
Laboratory Duplicate				
VP-E3S2	5/16/88	5/18/88	379	----
VP-E3S2	5/16/88	5/19/88	577	----
Method Blank	-------	5/18/88	15	----
Spike	-------	5/18/88	86% recovery	

*NOTE: The typical sample identification is expressed: VP-E1S1-- where -- VP= V.Ponte and Son, Inc; E1= Excavation One; S1=sample S1

All results are expressed in milligrams per kilogram (mg/kg), dry weight basis (dwb), unless otherwise noted.

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The petroleum hydrocarbon analyses of the post excavation sample VP-E4S4 collected on May 16, 1988 at the north wall of excavation number 4, indicated a PHC concentration of 2,990 mg/kg. Vapor analyzer screening of the same sample indicated a concentration of less than 100 ppm. Examination of the non-odorous material revealed blackish pieces of unburned coal like material mixed in the sandy soil (see Plate 16).

On May 18, 1988, one additional sample and a field duplicate (VP-E4S4.1 and VP-E4S4.1A) were collected six (6) inches below VP-E4S4 and analyzed for total petroleum hydrocarbons. The test results were 33.6 mg/kg and 40.7 mg/kg respectively. Visual examination of sample VP-E4S4.1 revealed the major component of the material to be a brown sand (See Plate 18). It is, therefore, suspected that the PHC detected in the first round of sampling was likely to have been caused by the coal like fragments intermixed in the soil and not by fuel oil.

The PHC analysis of the post excavation sample collected on May 16, 1988 at the western wall of excavation number 3, indicated a PHC concentration of 411 mg/kg. The same area was scanned with the vapor analyzer and the results indicated a concentration of less than 100 ppm. The nature of the material in this excavation, similar to the material encountered in excavation 2, was a mixture of unburned coal, cinders, brick, concrete, sand and gravel. On May 18, 1988, six (6) inches of fill was removed and a predominately brown sand and gravel soil was encountered. A post excavation sample, VP-E3S4.2, was then collected and analyzed for petroleum hydrocarbons. The laboratory test results indicated PHC levels of 7 mg/kg.

SUMMARY OF RESULTS
PETROLEUM HYDROCARBONS

Sample No.	Date Collected	Date Analyzed	Petroleum Hydrocarbons (mg/kg, dwb)	Moisture Content (%)
VP-E3S4.2 (post-ex. of sample # VP-E3S4.1)	5/18/88	5/23/88	7	12.0
VP-E4S4.1 (post ex. of sample # VP-E4S4)	5/18/88	5/23/88	33.6	6.3
VP-E4S4.1A	FIELD DUPLICATE	5/23/88	40.7	5.9
Method Blank	----	5/23/88	9	----
Spike	----	5/23/88	94% recovery	----

Evidence of visual examination, vapor readings and laboratory testing, indicate that the high PHC concentrations detected in this non-odorous post excavation samples was also caused by coal and/or unburned cinders found intermixed in the soil.

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Photographs of post excavation samples showing the coal and cinders intermixed with the soils can be seen on plates 11 and 13 through 17. Plates 10, 12 and 18 are photographs of samples collected which did not exhibit black fragments, high vapor concentrations or high laboratory PHC test results.

To further substantiate that the coal like material observed in the soil may be cause of false-positive results, the following experiment was performed. A selective laboratory analysis was performed on sample VP-E4S4; (PHC concentration of 2,990 mg/kg). The sample was sieved through a set of #10 and #20 size sieves. The portion of the sample retained on the #10 sieve was visually examined and was found to consist almost entirely of black coal fragments with a few sand grains. The portion of the sample retained on the #20 sieve was found to consist of a mixture of sand grains and black coal grains and the final sample, passed through the #20 sieve, consisted of mostly sand grain sizes with some fine black coal grains.

Each sample portion was analyzed for petroleum hydrocarbons. The test results are as follows:

SAMPLE PORTIONS	PHC (mg/kg, dwb)
Sample portion retained on the #10 sieve	3,180
Sample portion retained on the #20 sieve	528
Sample portion passed through the #20 sieve	251

As shown in the preceding laboratory test results, the portion of the sample with the greatest amount of coal fragments revealed the highest concentration of petroleum hydrocarbons.

Because it is difficult to remove all black coal grains by sieve analysis, petroleum hydrocarbons still exist in the sample passing the #20 sieve; however, the PHC concentration is considerably lower than the sample retained on the #20 and #10 sieves.

Based on this study, photographs, and vapor analyses results, we have concluded that the black coal/unburned cinders contribute to the amount of petroleum hydrocarbons detected in the post excavation samples. Therefore, it is our opinion that a clean-up threshold of 100 mg/kg is not a realistic value for this project.

Soil Sampling at the Transformer Area

As described in our letter of October 29, 1987, three (3) soil samples were collected in the transformer area which is located north of excavation 4.

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On May 18, 1988, the samples were obtained at an interval of zero to six inches below the surface along each side of the transformer. The samples were collected with hand tools and placed into laboratory cleaned four (4) once amber glass jars with Teflon lined caps. The samples were clearly labeled, properly sealed and placed into a cooler for transporting to the laboratory. A chain of custody record accompanied the samples.

Three (3) soil samples and a field duplicate sample were tested for Total PCB's in our laboratory in Fairfield, New Jersey.

The laboratory quality control analyses consist of laboratory duplicate, method blank and spiked samples. The quality control results are included in the summary of test results which follows:

TEST RESULTS SUMMARY
TOTAL PCB'S

Sample No.	Date Collected	Date Analyzed	Total PCB's (mg/kg, dwb)
VP-TS1	5/18/88	5/24/88	1.3
VP-TS2	5/18/88	5/24/88	0.09
VP-TS3	5/18/88	5/24/88	0.05
Field Duplicate			
VP-TS1	5/18/88	5/24/88	1.3
VP-TS1.1	5/18/88	5/24/88	1.1
Laboratory Duplicate			
VP-TS2	5/18/88	5/24/88	0.09
VP-TS2	5/18/88	5/24/88	0.09
Method Blank	-------	5/24/88	< 0.01
Spike	-------	5/24/88	90% Recovery
Method Detection Limit		-------	0.01

*PCB 1260 positive in all samples tested

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Based on the analytical data presented, the total PCB's detected in the soil samples collected in the transformer area ranged from 0.05 mg/kg to 1.3 mg/kg. Since the NJDEP threshold level for total PCB's in soil is between 1 mg/kg to 5 mg/kg, excavation of these materials is not proposed.

If you should have any questions, please do not hesitate to contact me.

Sincerely,

HAZARDOUS WASTE ENGINEERING CONSULTANTS

Gail Mazzarell

Gail Mazzarell
Environmental Project Manager

Filed:WPBCCLEAN

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EXCAVATION ONE

FORMER 1,000 GALLON MINERAL SPIRITS TANK

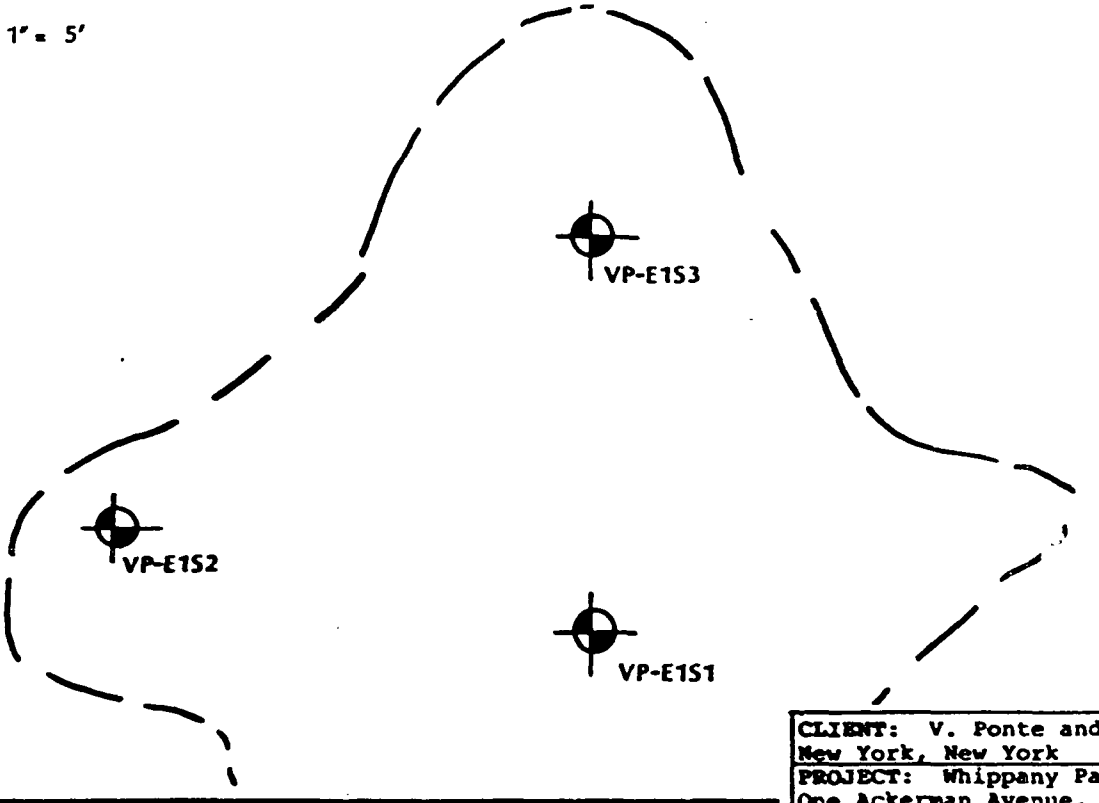
NORTH

PASSAIC RIVER

SAMPLE LOCATION

DEPTH OF EXCAVATION 14.5' below grade

SCALE: 1" = 5'



EXISTING BUILDING

CLIENT: V. Ponte and Son,
New York, New York

PROJECT: Whippany Paper I
One Ackerman Avenue, Clif

HAZARDOUS WASTE ENGINEERI
47 HUDSON STREET, OSSINI
(914) 762-9000

BY: GM DATE:

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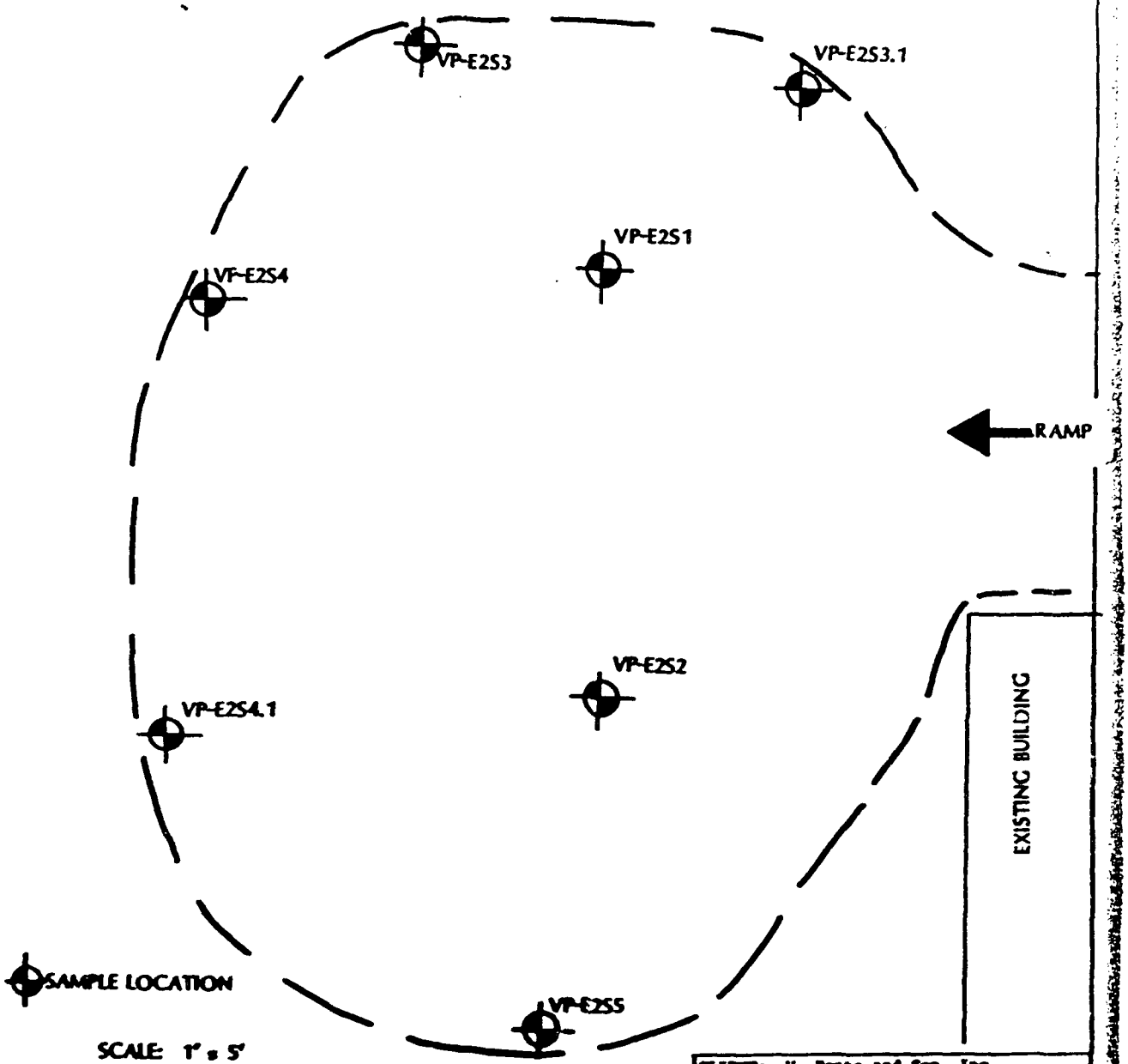
EXCAVATION TWO

PASSAIC RIVER

DEPTH OF EXCAVATION 10.5' below grade



EXISTING BUILDING

CLIENT: V. Ponte and Son, Inc.
New York, New York
PROJECT: Whippany Paper Board Company
One Ackerman Avenue, Clifton, New Jersey
HAZARDOUS WASTE ENGINEERING CONSULTANTS
47 HUDSON STREET, OSSINING, NEW YORK
(914) 762-9800
BY: GH DATE: 6/3/88

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EXCAVATION THREE

NORTH

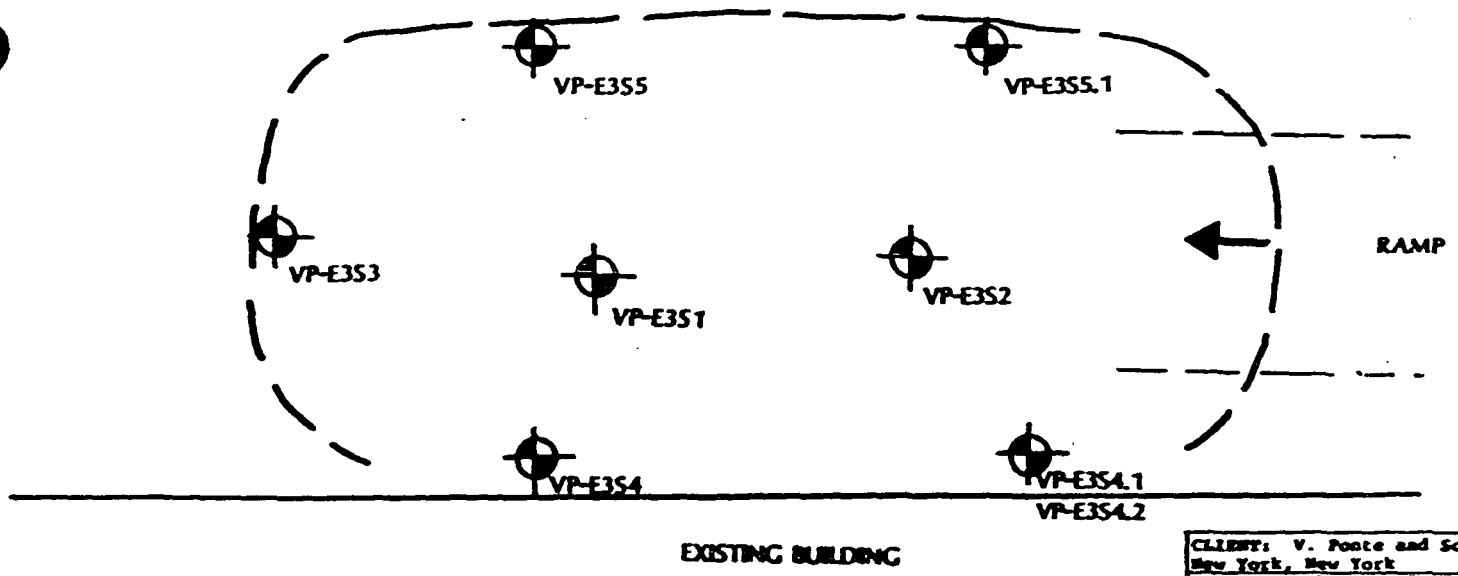
FORMER 4,000 GALLON HYDRAULIC OIL TANK

PASSAIC RIVER

SAMPLE LOCATION

DEPTH OF EXCAVATION 10.5'below grade

SCALE 1"= 5'



CLIENT: V. Ponte and Son, I
New York, New York
PROJECT: Whippany Paper Bra
One Ackerman Avenue, Clifton
HAZARDOUS WASTE ENGINEERING
47 HUDSON STREET, OSSINING,
(914) 762-9000
BY: GM DATE: 6/1

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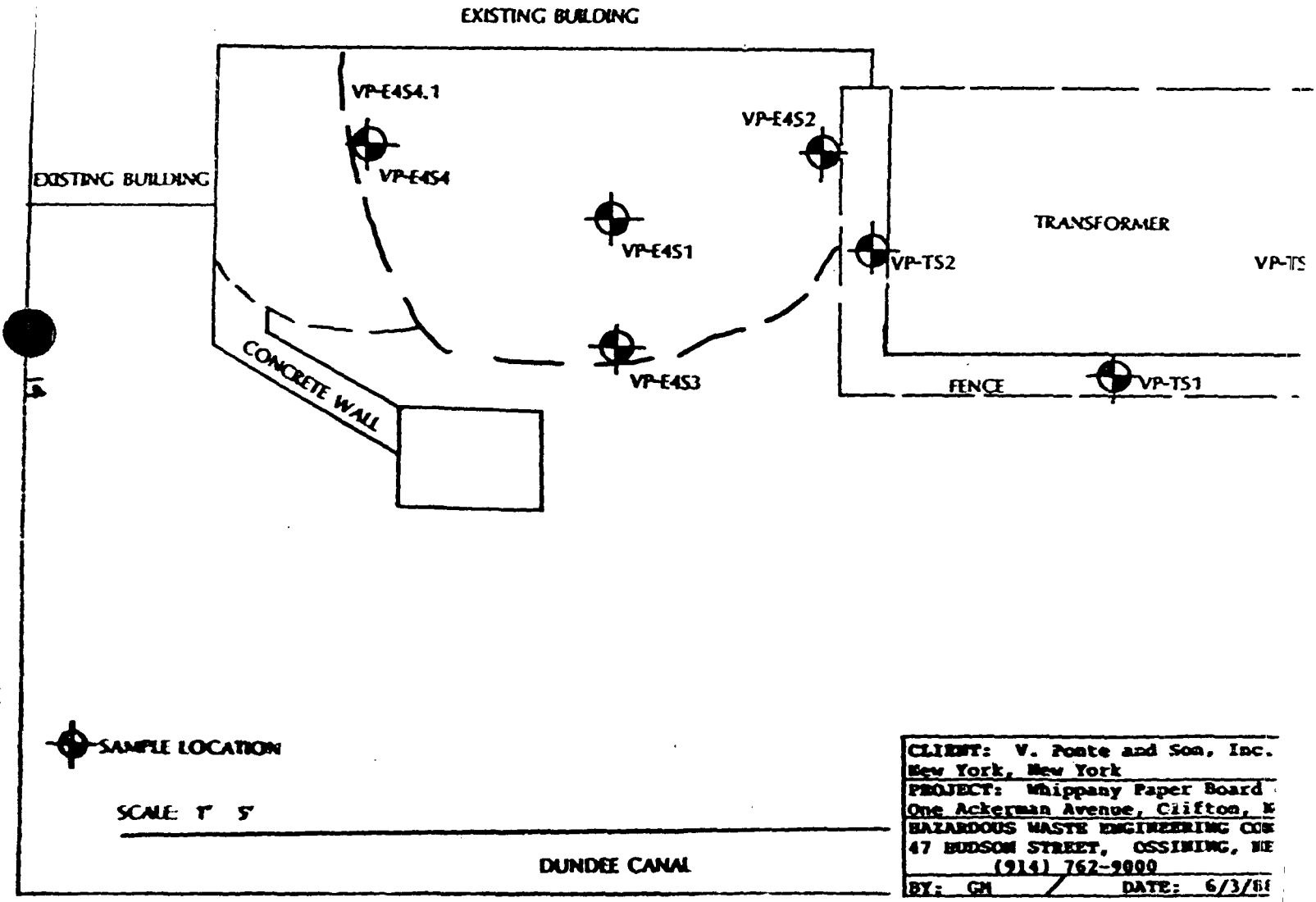
EXCAVATION FOUR

FORMER 1,000 GALLON FUEL OIL TANK



CLIENT: V. Ponte and Son, Inc.
New York, New York
PROJECT: Whippany Paper Board
One Ackerman Avenue, Clifton, N
HAZARDOUS WASTE ENGINEERING CON
47 HUDSON STREET, OSSINING, NE
(914) 762-9000
BY: GM / DATE: 6/3/8

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HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

March 22, 1989

State of New Jersey
Department of Environmental Protection
Division of Waste Management
Hazardous Site Mitigation Administration
401 East State Street
CN 028
Trenton, NJ 08625

Attention: Sal Balek

Re: Recycled Paper Board of Clifton, Inc.
Clifton, Essex County
ECRA Case # 85193

Dear Mr. Balek:

Hazardous Waste Engineering Consultants is pleased to submit the results of the groundwater sampling conducted at Recycled Paper Board of Clifton, Inc., on November 21 and 22, 1988. The groundwater was sampled in compliance with the Environmental Cleanup Responsibility Act and in accordance with our NJDEP approved sampling plan dated February 4, 1988. The analytical results and the conclusions of the groundwater sampling program are included in this report.

This report contains the analytical results from the soil testing on the soil around the abandoned drum storage area, conducted on November 29, 1988 and a description of the backfilling and encapsulation of the remediated areas on the east side of the facility. Also incorporated in this report is a schedule and cost estimate for the proposed remaining clean-up program at Recycled Paper Board of Clifton, Inc.

Groundwater Sampling

Between March 31 and April 1, 1986, five (5) groundwater monitoring wells were installed at the facility and certified under permit numbers 26-8803 through 26-8807.

On November 21 and 22, 1988, the groundwater monitoring wells were sampled. Each well was purged three (3) times its volume utilizing the bailer method. When the initial water level returned, the samples were collected with a two (2) inch O.D. PVC bailer equipped with a check valve.

Between the collection of each sample, the bailer was cleaned with the following sequential series of decontamination procedures: washed with non-phosphate detergent, rinsed with tap water, rinsed with deionized water, rinsed with 10% nitric solution, rinsed with deionized water, rinsed with acetone, air dried and rinsed with deionized water. The retrieval cord was replaced prior to the sampling of each well.

All samples were collected in laboratory cleaned amber glass bottles, polyethylene containers and 40ml volatile organic vials. All container lids were Teflon lined and proper preservatives were added prior to sampling. The samples were clearly labeled with the sample location, the sample identification number, date and time. The samples were chilled with blue ice and placed into a cooler for transporting to the laboratory. A chain of custody accompanied each set of samples.

Groundwater Sampling Results

The analytical parameters for this round of groundwater samples were Priority Pollutants +40 (minus the pesticide fraction), phenols, cyanide and total petroleum hydrocarbons.

Test results revealed that the total concentration of Volatile Organic compounds in MW-1, MW-2, MW-3, MW-4 and MW-5 were detected at levels of 17 µg/L, 3 µg/L, 31 µg/L, 11 µg/L and 9 µg/L respectively. The Volatile Organic Tentatively Identified Compounds (TIC's) in MW-2, MW-4 and MW-5 were detected at total levels of 8 µg/L, 31 µg/L and 12 µg/L respectively. The TIC found was 1,1,2-Trichloro-1,2,2-trifluoro-ethane. The testing laboratory attributes this compound to possible lab contamination.

Base Neutral Compounds were found in samples MW-1, MW-2, MW-3, and MW-5, at concentrations of 10 µg/L, 8 µg/L , 12 µg/L, and 26 µg/L respectively. However, 96.8% of the detected BNA's in all the samples was the compound bis (2-ethyl hexyl) phthalate which was also detected in the field blank at a level of 200µg/L. Bis (2-ethyl hexyl) phthalate is often used as a plasticizer in the production of PVC piping (utilized in the sampling bailer), and thus a potential source of the compound. MW-5 was found to contain Base Neutral Tentatively Identified Compounds at a concentration of 11µg/L.

The remaining analytical parameters were below the detection limits for all of the groundwater samples tested.

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A summary table of the groundwater test results is presented in Appendix I of this report. A copy of the laboratory report for the groundwater analysis and the Tier II Quality Control/Quality Assurance data package is presented in Appendix VI of this report.

Half-mile Radius Well Search

The study of the half-mile well search provided by the NJDEP revealed a number of the groundwater supply and groundwater monitoring wells, installed in the vicinity of Recycled Paper Board of Clifton, Inc., had Petroleum Hydrocarbon odors in their water. Of the Forty-six (46) wells listed in the search, at least ten (10) have recorded in their installation logs the detection of a gas, oil or petroleum hydrocarbon odor.

One such well installation record from the British Petroleum gas station, located upgradient to the Clifton project site, indicates there were "very strong" petroleum hydrocarbon vapors at 15 to 22 feet below grade. Other well installation records note a "free product" sheen in several of the wells installed at that site.

Also upriver from this project is the Fisher Scientific Corporation, which has recorded in log installation records a "solvent" odor noted during the installation of two monitoring wells at the site.

A copy of the well search is included in Appendix IV of this report.

Groundwater Sampling Conclusions

The elevations of the top of well casing and well water surface levels were surveyed for the purpose of developing groundwater contours and flow direction. Table I lists the groundwater elevations, ground surface elevation, the top of casing elevation and the dates of measurement. The groundwater contours that were developed indicate a south-eastern flow direction as illustrated on the attached drawing (see Appendix VIII).

Groundwater elevations indicate that MW-1 serves as a background well, thus providing a water quality reference to which we can compare the analytical results of the other wells.

All relevant information indicates the groundwater contamination detected in the monitoring wells is similar to that detected in the background well, therefore indicating the contamination is from an off-site location. We conclude that the detected groundwater contamination at Recycled Paper Board of Clifton, Inc. is not from soil contamination on the property and thus further remediation efforts in this area should not be required.

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Table I

GROUNDWATER MEASUREMENTS

Date	Monitoring Well Number	Ground Surface Elevation	Top of PVC Casing Elevation	Static water Elevation
5/24/85	MW-1	27.33	30.00	---*
	MW-2	16.28	19.03	5.86
	MW-3	16.12	16.37	5.872
	MW-4	15.87	18.45	5.62
	MW-5	15.97	18.47	5.98
11/21/88	MW-1	27.10	29.16	8.58
	MW-2	16.28	19.03	7.78
	MW-3	16.12	16.37	7.87
	MW-4	15.87	18.45	7.03
	MW-5	15.97	18.47	7.39
1/16/89	MW-1	27.71	29.16	7.96
	MW-2	16.28	19.03	7.32
	MW-3	16.12	16.37	7.41
	MW-4	15.87	18.45	6.75
	MW-5	15.97	18.47	7.02

*MW-1 was dry upon installation. The well was abandoned, and was relocated to the position seen on attached print.

Backfill and Encapsulation

As requested by the NJDEP in the letter dated December 29, 1988, the test pits and excavated areas from the removed underground storage tanks have been backfilled. The fill was from a virgin and uncontaminated source as stated in the affidavit dated November 23, 1988, provided by from the supplier of the fill, RAIA Industries. The area of each backfill was then subsequently paved over. A copy of the affidavit was provided to the NJDEP prior to backfilling, and can be found in Appendix V of this report.

Soil Sampling

On November 29, 1988, three soil samples were taken from the drum storage area on the West side of the structure. The samples were taken with properly decontaminated stainless steel spades from a

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test pit dug with the aid of Case Backhoe. The grab samples represent a six (6) inch vertical section of soil. Grab Sample 1 (GS-1) represents soil from 6" to 12" below grade, GS-2 from 13" to 19", and GS-3 from 20" to 26". As requested in the NJDEP letter regarding sampling in that area, all samples were analyzed for Base Neutral +25 plus Acid Extractables and Priority Pollutant Metals.

Test results indicate that GS-1 had a total BN level of 524 µg/kg with a total BN TIC's level of 23,020 µg/kg. GS-2 revealed a total BN level of 1,362 µg/kg with a total BN TIC's level of 36,930 µg/kg. GS-3 had a total BN level of 768 µg/kg with a total BN TIC's level of 27,430 µg/kg.

The samples collected revealed that the all of the metals in the Priority Pollutant Metals analysis were below the Minimum Detection Limit or below the action levels with the following exceptions: GS-1 revealed a level of lead at 173 mg/kg; GS-2 showed levels of antimony, copper, lead, and mercury at 9.1 mg/kg, 705 mg/kg, 2,420 mg/kg, and 2.4 mg/kg respectively; GS-3 revealed levels of lead and mercury at 277 mg/kg and 1.8 mg/kg respectively. A summary table of the test soil test results can be found in Appendix II of this report and the copy of the complete test results with laboratory QA/QC Tier II data can be found in Appendix VII.

Discussion

Remediation and encapsulation of the areas of the tank excavations and the test pits has been completed. These areas require no further attention.

The analysis of the soil around the abandoned drum storage area has revealed levels of Base Neutral Compounds and some Priority Pollutant Metals above the designated action levels. Previous testing indicated that the discolored area of soil around the 160,000 gallon storage fill pipe is contaminated with Petroleum Hydrocarbons from spillage during filling. We propose remediating these areas utilizing the procedures outlined below in the "Proposed Clean-up Plan".

Proposed Clean-up Plan

Proposed Schedule

As requested in the NJDEP letter dated December 29, 1989, HWEC is submitting this additional soil cleanup plan for the Clifton facility. The plan encompasses the collection of waste classification samples, excavation, post-excavation sampling, back filling and encapsulation of the contaminated areas around the drum storage area and the soil in the vicinity of the fill pipe of the

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160,000 gallon fuel storage tank.

Approximately sixteen (16) yards of soil will be excavated from the area around the abandoned drum storage area, and approximately three (3) yards of contaminated soil will be excavated from the vicinity of the fill pipe of the 160,000 gallon tank. Both areas of proposed excavation are depicted on the ground water contour map attached at the end of this report.

To insure the removal of the soils with contamination above the ECRA action levels, post-excavation samples will be taken from each area of remediation. The post-excavation samples will be taken from the floor of the excavations as well as from the walls. The samples will be taken as follows:

1) For the excavation area at the concrete drum storage area, a total of four (4) post excavation samples will be collected: one from each end of the excavation, one from the side of pit opposite to the foundation of the building, and one from the bottom in the center of the excavation. These samples will be analyzed for BNA, PPM, and PHC.

2) Three (3) post-excavation samples will be collected for the discolored area under the fill pipe: one sample will be collected from the base of pit and two samples will be taken from location equally spaced along the wall. These samples will be analyzed for PHC.

After the contaminated soil is removed from the site, and post-excavation samples confirm successful remediation, we will backfill the areas of excavation. The backfill will consist of virgin soil from an off site source. A copy of an affidavit stating the fill is from a virgin source and is free of any contamination will be supplied to the State in our final report. Upon the completion of site remediation, the areas of excavation and backfilling will be encapsulated with pavement.

HWEC will provide complete diagrams and/or prints of each area of remediation and encapsulation in the final report.

Initiation of the following schedule will commence two (2) weeks after we receive approval of the proposed clean-up plan.

Task:	Week Initiated	Week Completed
Collect and analyze Waste Classification samples:	Previously	Completed
Submission of Waste Classification results	1	4

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for landfill approval:		
Excavation and Disposal of contaminated soil:	5	6
Collect and analyze post-excavation samples:	6	10
Backfill and Encapsulation:	11	13
Prepare and submit comprehensive report:	10	14

Fees Schedule

The following is a fee schedule and an estimate of the total cost which includes the waste classification submitted for analysis on September 9, 1989:

1) Waste Classification Sampling and Analysis ..... $ 4,000.00

2) Removal and disposal of contaminated soil;... $ 37,500.00

3) Collection and testing of post excavation soil samples from the drum storage area: Estimated four (4) samples and two (2) QA/QC samples @ $ 950/sample ..... $ 5,900.00

4) Collection and testing of post excavation soil samples from the 160,000 gallon tank fill pipe area: Estimated three samples @ $ 125.00/sample ..... $ 375.00

5) Geologist for site supervision, site reconnaissance, recording soil logs, collection of soil samples, preparation of chain-of-custody & test request forms and report preparation: Estimated seven (7) days @ 500.00/day..... $ 3,500.00

6) Project manager to prepare comprehensive report with findings and recommendations .... $ 2,500.00

7) Professional Engineer to review data, edit and approve final report..... $ 2,000.00

Estimated Total: $ 55,7750.00

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If you have any questions regarding the information contained in this report and proposal, please contact us at (914) 762-9000.

Sincerely,
HAZARDOUS WASTE ENGINEERING CONSULTANTS

Frederick A. Porcello, P.E.
President

FAP/LR/gc
.F:HOPE.1

GROUNDWATER SAMPLING
GENERAL SUMMARY TABLE

PROJECT: Recycled Paper Board of Clifton
LOCATION: 1 Ackerman Drive, Clifton, New Jersey

DATE SAMPLED: 11-21-88

	WP1-MW1	WP1-MW2	WP1-MW3	WP1-MW4	WP1-MW5
Volatile Organic Total Concentration (µg/l) Target Compounds	17	3	31	11	9
Total Concentration (µg/l) Volatile Organic Tentatively Identified Compounds	None Detected	8*	None Detected	31*	12*
Total Concentration (µg/l) Priority Pollutant Base/Neutral Target Compounds	10	8	12	None Detected	26
Total Concentration (µg/l) Base/Neutral Tentatively Identified Compounds	None Detected	None Detected	None Detected	None Detected	11**
Total Concentration (µg/l) Priority Pollutant Acid Extractable Target Compounds	None Detected	None Detected	None Detected	None Detected	None Detected
Total Concentration (µg/l) Priority Pollutant PCBs	None Detected	None Detected	None Detected	None Detected	None Detected
Total Concentration (mg/l) Petroleum Hydrocarbons	<1	<1	<1	<1	<1
Cyanide (µg/l)	<10	<10	<10	<10	<10
Phenols (µg/l)	<5.0	<5.0	<5.0	<5.0	<5.0

Note: * Ethane, 1,1,2-trichloro - 1,1,2-trifluoro - found in both field blank and trip blank. Possible lab contamination.
** Unknown hydrocarbon

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GROUNDWATER SAMPLING
GENERAL SUMMARY TABLE (Continued)

PROJECT: Recycled Paper Board of Clifton
LOCATION: 1 Ackerman Drive, Clifton, New Jersey

DATE SAMPLED: 11-21-88

	MW-1A (Duplicate)	Field Blank FB-1	Trip Blank TB	NJDEP Threshold Limits	Ground Water Quality Standards N.J.A.C. 7:9-6.6
Volatile Organic Total Concentration (ug/l) Target Compounds	22	19	23	10	---
Total Concentration (ug/l) Volatile Organic Tentatively Identified Compounds	15*	3*	8*	---	---
Total Concentration (ug/l) Priority Pollutant Base/Neutral Target Compounds	16	200	---	50	
Total Concentration (ug/l) Base/Neutral Tentatively Identified Compounds	None Detected	10	---	---	---
Total Concentration (ug/l) Priority Pollutant Acid Extractable Target Compounds	None Detected	None Detected	---	50	---
Total Concentration (ug/l) Priority Pollutant PCBs	None Detected	None Detected	---	1	---
Total Concentration (mg/l) Petroleum Hydrocarbons	<1	<1	---	1	---
Cyanide (ug/l)	<10	<10		200	200
Phenols (ug/l)	<5.0	<5.0	---		

Note: * Ethane, 1,1,2-trichloro - 1,1,2-ethane - found in both field blank and trip blank. Possible lab contamination.

Note: "- - -" Indicates parameter not tested for or not applicable

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SOIL ANALYSIS
GENERAL SUMMARY TABLE

PROJECT: Recycled Paper Board of Clifton, Inc.
LOCATION: 1 Ackerman Drive, Clifton, New Jersey

DATE SAMPLED: 11-29-88

	Method Blank	WP GS-1	WP GS-2	WP GS-3
Total Concentration (µg/kg) Priority Pollutant Base/Neutral Target Compounds	51	524	1362	768
Total Concentration (µg/kg) Base/Neutral Acid Extractable Compounds	Not Detected	Not Detected	Not Detected	Not Detected
Total Concentration (µg/kg) Base/Neutral Tentatively Identified Compounds	50,040	23,020	36,930	27,430
Total Concentration (mg/kg) Priority Pollutant Metals				
Antimony	---	<2.2	9.1	<2.2
Arsenic	---	2.2	7.7	3.3
Beryllium	---	<0.54	<0.58	<0.56
Cadmium	---	<0.54	<0.58	<0.56
Chromium	---	6.1	10	10
Copper	---	27	705	147
Lead	---	173	2420	277
Mercury	---	<0.1	2.4	1.8
Nickel	---	7.2	19	15
Selenium	---	<0.54	3.9	<0.56
Silver	---	<1.1	<1.2	<1.1
Thallium	---	<1.1	<1.2	<1.1
Zinc	---	52	180	168

NOTE: "- - -" indicates parameter not tested for or not applicable

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

August 27, 1990

Cleanup Oversight Section
BEECRA
New Jersey Department of Environmental Protection
CN 028
Trenton, New Jersey 08625-0028
Attn: Mr. John Graham, Case Manager

RE: Whippany Paperboard Co.
Clifton City/Passaic County
ECRA Case # 85193

Dear Mr. Graham:

Hazardous Waste Engineering Consultants is pleased to submit this progress report on cleanup activities to date at Whippany Paperboard, Clifton, New Jersey.

Three (3) post-excavation samples were collected from the sidewalls of the excavation at the above ground storage tank on July 13, 1990. A base sample could not be collected due to the presence of groundwater in the excavation. The samples were submitted for analysis for TPHC, VOC +15 and a preliminary screening for BN +15.

The preliminary screening of the post-excavation samples for BN +15 revealed concentrations of base neutral compounds to be within acceptable final cleanup concentrations. Post-excavation samples were collected for final BN +15 analysis on August 17, 1990. The sampling locations were identical to those of July 13, 1990.

The TPHC analysis revealed an unacceptable level of PHC contamination in post-excavation sample WPB-PE1, which corresponded to the northeastern side of the excavation (the side closest to the Whippany Paperboard facility). Additional excavation and sampling was conducted on August 23, 1990. An additional 1/2 cubic yard of soil was excavated from the northeastern side of the excavation and a post-excavation sample was collected for TPHC analysis. The laboratory analysis revealed levels of PHC within acceptable final cleanup concentrations.

Cleanup Schedule and Costs

The completion of the excavation of the stained soil and post-excavation sampling at the above ground storage tank is the final phase of the approved cleanup plan for Whippany Paperboard. Upon evaluation of the sampling results by the NJDEP and backfilling of the excavation, the cleanup plan will be 100% complete. HWEC will submit a report detailing the post-excavation sampling which will contain complete laboratory analytical results when the final BN +15 analysis of the post-excavation samples is complete. HWEC expects the results from the BN +15 analysis on or about August 31, 1990.

The completed cleanup work to date includes: the excavation of the soil in the drum storage area, the collection of post-excavation samples from the drum storage area, the disposal of the contaminated soil from the drum storage area and the sampling of the soil around the transformer pad.

The extended duration of the Whippany Paperboard Project precludes an exact calculation of the cleanup costs to date, however, since January, 1990, the costs of the Cleanup Plan to Whippany Paperboard have been approximately $ 24,566.00.

Sincerely,
HAZARDOUS WASTE ENGINEERING CONSULTANTS

Leonard H. Robbins IV
Project Manager

f:wpbprog1.rep

cc: Sal Nappa
Joseph A. Foglia
Gregory D. Frost

Form ECRA-1
6/85

N ERSEY DEPARTMENT OF ENVIRONMENTAL TECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS SITE MITIGATION ADMINISTRATION
BUREAU OF INDUSTRIAL SITE EVALUATION

ENVIRONMENTAL CLEANUP RESPONSIBILITY ACT (ECRA)

INITIAL NOTICE

GENERAL INFORMATION SUBMISSION (GIS)

This is the first part of a two-part application form. This information must be submitted within 5 days following public release of a decision to close operations or the signing of a sales agreement or option to purchase involving an Industrial Establishment as defined in N.J.S.A. 13:1K-6, the Environmental Cleanup Responsibility Act.

SUBMIT THE ORIGINAL PLUS TWO COPIES OF THIS COMPLETED FORM AND ANY ATTACHMENTS.

Please refer to instructions and N.J.A.C. 7:1-3.7(d) before filling out this form. Answer all questions. Please print or type.

Date: July 17, 1987

1. A. Industrial Establishment:

Name: Whippany Paper Board Co., Inc. / "Clifton Facility" Telephone No.: (201) 887-3300

Street Address: One Ackerman Avenue

City or Town: Clifton State: New Jersey Zip Code: 07011

Municipality: Clifton City County: Passaic

B. Tax Lot Number: 1& 2* Tax Block Number: 4-15

*and a small parcel known as Block 51-Lot 1 on tax map of the City of Passaic

C. Standard Industrial Classification (SIC) Number: 26

D. Current Owner (Property):

Name: Whippany Paper Board Co., Inc. Telephone No.: (201) 546-4468

Firm: c/o River Terminal Development Company

Street Address: 100 Central Avenue, Building 30

Municipality: Kearny State: New Jersey Zip Code: 07302

E. Current Operator of Industrial Establishment:

Name: Same as D Telephone No.:

Firm:

Street Address:

Municipality: State: Zip Code:

F. Current Owner (Business, if different from operator):

Name: Same as D Telephone No.:

Firm:

Street Address:

Municipality: State: Zip Code:

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FOR DEP USE ONLY

Date Rec'd. Notice No.

946010129

G. If the Industrial Establishment discharges sanitary and/or industrial wastes to a publicly-owned treatment plant, provide the name and address of that facility.

Name: Passaic Valley Sewage Authority Telephone No.: (201) 344-1800

Street Address: 600 Wilson Avenue

Municipality: Newark State: N.J. Zip Code: 07105

Is a septic system used (or used previously) at the site? ☐ Yes ☒ No

H. Has an ECRA application been filed for this Industrial Establishment or location subsequent to January 1, 1984? ☒ Yes ☐ No If so, when? March, 1985

For what reason Proposed sale of real property/subsequent Tender Offer.

Final disposition See active ECRA Case #85193 - no final disposition; compliance effort still pending.

I. How is this Industrial Establishment heated? (gas, oil, electricity) oil

2. List previous activities at the location(s) involved (attach additional sheets if necessary). In addition to describing the activities, list the business name(s), current address(es) and dates of ownership/operation of the previous activity(ies), if known.

1930 - late 1986: operator/owner - Whippany Paper Board Co., Inc.

Manufacuture of paper board and paper products. Since approximately 1980, facility has been and still is dormant.

Late 1986 - Present: NPN, Inc., a Delaware corporation, acquired approximately 76% of issued, outstanding shares of Whippany Paper Board and subsquently merged into Whippany Paper Board Co., leaving Whippany Paper Board Co. remaining as owner of record.

3. If the transaction initiating an ECRA review is the cessation of operations at this location, fill in the date of public release of the decision to close the facility and enclose a copy of the public announcement. Is a cession of operations involved? ☐ Yes ☒ No

Date of the public release of the decision N/A

Is the public release enclosed? ☐ Yes ☒ No

If you checked "no", state the reason(s) N/A

4. If the transaction initiating an ECRA review is an agreement of sale or option to purchase, fill in the date of the execution of that instrument plus provide a copy of the document See Appendix 1

A. Is a sale involved? ☒ Yes ☐ No - Pursuant to settlement of pending litigation.

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B. Date of Agreement July 10, 1987

C. Is a copy of the agreement of sale or option to purchase attached? ☒ Yes ☐ No

~~If you checked "no", state the reason(s)~~ See also Contract of Sale, dated March 13, 1985 in ECRA Case #85193.

D. Clearly describe the transaction in terms of the action which initiates the ECRA review (e.g., sale of real estate only, sale of real estate and business, cessation of operations only, etc.):

Sale of real estate only pursuant to Settlement Agreement in litigation pending in State Superior Court, Passaic County, Chancery Division.

E. List other parties (purchasers) to the transaction:

NAME	STREET ADDRESS AND MUNICIPALITY	PHONE NO.
V. Ponte & Sons, Inc.	511 Canal Street New York, New York	c/o Gregory Tapfar, Esq. (212) 751-2900

5. Actual date proposed for closure of operations or transfer of title: 10 days after issuance of requested ACO; ACO request submitted concurrently with this Initial Notice.

6. Authorized agent designated to work with the Department:

Name: Carol A. Surgens, Esq. Telephone No.: (201) 992-8700

Firm: Lowenstein, Sandler, Kohl, Fisher & Boylan

Street Address: 65 Livingston Avenue

Municipality: Roseland State: New Jersey Zip Code: 07068

7. List all federal and state environmental permits applied for and received at this facility (attach additional sheets if necessary).

Check here if no permits are involved: _____

A. New Jersey Bureau of Air Pollution Control

PERMIT NO.	CERTIFICATE NO.	DATE OF APPROVAL OR DENIAL	REASON FOR DENIAL (If applicable)	EXPIRATION DATE
ID #30011		October, 1981		1982

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B. New Jersey Pollutant Discharge Elimination System

NUMBER	DISCHARGE ACTIVITY	DATE ISSUED OR DENIED	EXPIRATION DATE	BODY OF WATER DISCHARGED INTO
N/A				

C. United States Environmental Protection Agency (EPA) Identification Number and copy of the most recent generator Annual Report prepared pursuant to the New Jersey Hazardous Waste Regulations.

ID # N/A

Is a copy of the Annual Report attached? ☐ Yes ☐ No

D. All other federal, state, local governmental permits.

AGENCY ISSUING PERMIT	PERMIT NUMBER	DATE OF APPROVAL OR DENIAL	EXPIRATION DATE
N/A			

8. If applicable, identify all administrative orders, temporary or permanent injunctions, civil administrative penalties, or criminal actions concerning the environment issued against the facility, its owners, or managers during the last ten years.

Check here if no enforcement actions are involved X

A. Date of Action _____

Section of Law or Statute violated _____

Type of Enforcement Action _____

Description of the Violation _____

How was the violation resolved? _____

ABK000162

B. Date of Action _____

Section of Law or Statute violated _____

Type of Enforcement Action _____

Description of the Violation _____

_____

_____

_____

How was the violation resolved? _____

_____

_____

_____

(Add additional pages, if necessary)

*I hereby certify that the information furnished on this application and any attachments is true.** *I am aware that false swearing is a crime in this State. I am cognizant that providing false information is a violation under ECRA and that I may be personally liable for penalties up to $25,000 per day.*

_____
Signature

ANGELO PONTE
Name (Print or Type)

_____
Title

July 17 1987
Date

*to the best of my information, knowledge and belief after diligent inquiry of persons knowledgeable of and responsible for operations of this Industrial Establishment and based on materials filed with the New Jersey Department of Environmental Protection in ECRA Case #85193.

ABK000163

1104

CARMINE T. PERRAPATO
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

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COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

May 20, 1977

RECEIVED
JUN - 2 1977
INTERSTATE SANITATION COMMISSION

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey

Re: Bi-Monthly Report
March and April 1977

Gentlemen:

The following is my report which covers the months of March and April 1977, and consists of three parts:

Part I: Special Reports

#1 - User Charges — Page 1

#2 - Pretreatment of Industrial Waste — Page 7

#3 - The Passaic River March-April 1977 — Page 19

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred — Page 26

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution — Page 36

KLL028623

ABK000333

946010135

Violation - S. B. Penick (con't.)

Although the job was completed, samples taken subsequently were still polluting. When questioned about this, Mr. Butera informed Inspector Fleming that Penick had been flushing out their sprinkler lines and may have washed some polluting material into the storm sewer downstream of the the pit. At the end of April, PVSC was still checking the area to be certain that the pollution was actually eliminated.

Violation - Rheingold Breweries, Inc., 119 Hill Street, Orange, N. J.

November 17, 1976 - April 30, 1977 (M. Cordasco)

See the PVSC's 1976 Annual Report, page 218.

When it became apparent that the dye test of the lines was being delayed excessively while personnel searched for blueprints, Rheingold began to do this work without the drawings on February 15, 1977. Inspector Cordasco met with Mr. P. Kennedy, who is in charge of the dye testing, on February 25, and inquired about his progress. Mr. Kennedy stated that because they did not know the location of the various outlets, it is a slow process. Mr. Kennedy finally contacted the Public Works Department of the City of Orange for assistance.

Mr. Gerald McNeil, Director of Laboratories and Technical Services, wrote to Mr. D'Ascensio on March 23 and stated that Rheingold was conducting pH and temperature tests in addition to the dye tests in order to aid in locating the sources of the pollution.

On April 29, Mr. Kennedy informed Inspector Colello that the dye tests were nearly complete.

Violation - Whippany Paper Board Company, Inc., 1 Ackerman Avenue, Clifton, N. J.

September 8, 1976 - April 30, 1977 (T. Costello)

See the PVSC's 1976 Annual Report, page 221.

The pollution involved the boiler blowdown going to the Passaic River. Mr. A. Grier had informed PVSC that the Whippany Paper Board Company intended to pipe the boiler blowdown to the sanitary sewer as a temporary measure in order to eliminate the violation, although ultimately there would be installed a system to recirculate the water back to the mill supply for reuse.

The blowdown tank was set in place in January and the necessary valves were installed. Work was halted February 7-9 because of repair work involved in another pollution (see Violation and Elimination, Whippany Paper Board Company, page 30). By February 28, the manifold was being welded to the blowdown tank.

KLL028670

ABK000334

946010136

118 A

CARMINE T. PERRAPATO
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT J. DAVENPORT
BEN W. GORDON
JOSEPH M. KEEGAN
CHARLES A. LAGOS
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PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

March 25, 1977

RECEIVED
APR. 1 1977
INTERSTATE SANITATION COMMISSION

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey

Re: Bi-Monthly Report
January and February 1977

Gentlemen:

The following is my report which covers the months of January and February 1977, and consists of three parts:

Part I: Special Reports

#1 - General Operational and Progress Report on PVSC Work ..... Page 1

#2 - The Passaic River ..... Page 4

#3 - Oil Lake ..... Page 10

#4 - Amendments to the Federal Water Pollution Control Act ..... Page 11

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred ..... Page 14

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution ..... Page 32

KLL028503

ABK000335

946010138

Violation - Rheingold Breweries, Inc., 119 Hill Street, Orange, N. J.

November 17, 1976 - February 28, 1977 (M. Cordasco)

See the PVSC's 1976 Annual Report, page 218.

When it became apparent that the dye test of the lines was being delayed excessively while personnel searched for blueprints, Rheingold began to do this work without the drawings on February 15, 1977. Inspector Cordasco met with Mr. P. Kennedy, who is in charge of the dye testing, on February 25, and inquired about his progress. Mr. Kennedy stated that because they did not know the location of the various outlets, it is a slow process. Mr. Kennedy finally contacted the Public Works Department of the City of Orange for assistance.

Violation - Whippany Paper Board Company, Inc., 1 Ackerman Avenue, Clifton, N. J.

September 8, 1976 - February 28, 1977 (T. Costello)

See the PVSC's 1976 Annual Report, page 221.

The pollution involved the boiler blowdown going to the Passaic River. Mr. A. Grier had informed PVSC that the Whippany Paper Board Company intended to pipe the boiler blowdown to the sanitary sewer as a temporary measure in order to eliminate the violation, although ultimately there would be installed a system to recirculate the water back to the mill supply for reuse.

The blowdown tank was set in place in January and the necessary valves were installed. Work was halted February 7-9 because of repair work involved in another pollution (see Violation and Elimination, Whippany Paper Board Company, page 30). By February 28, the manifold was being welded to the blowdown tank.

Respectfully submitted,

S. A. Lubetkin,
Chief Engineer

SAL/kl

JAMES J. McMAHON
CHAIRMAN

DOMINIC W. CUCCINELLO
VICE CHAIRMAN

CARMINE T. PERRAPATO
BENJAMIN W. GORDON
SAMUEL L. BIBER
COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
790 BROAD STREET
NEWARK, N. J. 07102

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

THOMAS E. DURKIN, JR.
ATTORNEY

MRS. CHARLES T SCHAEDEL
CLERK-TREASURER

March 31, 1970

POLLUTIONS CORRECTED DURING 1969

The following is a report of pollutions which occurred in the Passaic River below the Great Falls, or one of its tributaries, which were corrected during the year 1969. Each report will show the source of pollution, the dates of pollution, and the river inspector assigned to the violation until it was eliminated.

BERGEN COUNTY

Central Volkswagen Inc., Maple Avenue & Route 208, Fairlawn, N.J.
December 3, to 12, 1969 (T. Costello)

Intermittent oily films in Diamond Brook were traced back to this firm. Upon checking, it was found that this company removed cosmoline from new vehicles in an area where the material went into a ditch which led to Diamond Brook. Upon being notified that this was a violation, the company made arrangements to have the cosmoline removed from the cars by a firm in Port Newark before being delivered to their distribution point in Fairlawn. Pollution eliminated December 12, 1969.

Curtiss-Wright Corporation, One Passaic Street, Woodridge, N.J.
December 3, 1968 to May 28, 1969. (J. Perrapato)

Intermittently throughout 1968, there were polluting discharges from the Curtiss-Wright Corp., to Felds Brook, a tributary of the Passaic River. Generally speaking the dicharges contained small amounts of oil. Upon being notified of the problem, the Plant Engineer explained that it was during filter changes that this occurred and that they would see to it that extra care was taken during these filter change times so that no oil would reach the Brook again.

However, on December 3, 1968, the oil was again detected in Felds Brook and traced back to this company. On December 10, 1968, Mr. Lubetkin informed this company that they were polluting, that they should make corrections immediately. On December 26, 1968, Mr. Lubetkin received a letter from Curtiss-Wright Corp., informing him that consultants were being brought in to review their present system, in order to make the necessary improvements to halt the pollution. The situation continued much the same and finally on March 12, 1969, Mr. Lubetkin again wrote to the Curtiss-Wright Corp.

KLL005574

ABK000338

946010141

West Diner (continued)

to Valley Road.

On April 14, 1969, the Commissioners were informed that West Diner had received a copy of the proposed agreement between the City of Clifton and the Township of Little Falls, and West Diner had approved it. Also, Mr. Lee T. Purcell, Consulting Engineer, was working on plans for the line.

On June 23, 1969, the Commissioners again questioned West Diner, as to the status of this work. On June 25, a reply was received, again indicating the complexity of the situation, because of the necessity to accomodate the desires of two communities as well as West Diner and the Department of Transportation. The Commissioners were told that plans for the sewer have already been prepared by their Consulting Engineer, and they will pursue the signing of the agreements by all parties concerned.

On September 11, 1969, the Commissioners were informed that West Diner had signed the agreement, but they were still waiting for the agreement to be signed by the Township of Little Falls' Attorney, and the City Attorney for the City of Clifton.

Letters to the Commissioners, dated September 19, 1969 and November 3, 1969, reiterated they were still waiting for signatures. Mr. Lubetkin contacted the City of Clifton by telephone to expedite this, and was assured by the City that this would be done at once. A later call from Clifton indicated it had been signed by Clifton, but was being held up by Little Falls.

On December 10, 1969, a letter was received from West Diner, stating that they had finally received the signed agreements. The next step was to get approval by the Department of Transportation, which, the Commissioners were told, had indicated it would approve the work, but the application had to be made by the municipalities concerned. This was the situation as of the end of 1969.

Whippany Paper Board Company, 1 Ackerman Avenue, Clifton, N.J.
August 8 to August 28, 1969 (R. Goldstein)

The Commissioners' Inspectors discovered that a 20 inch steel pipe line, which carries waste to the Commissioners' trunk sewer, was leaking at a joint and caused a small amount of pollution to reach the Passaic River. Mr. Lubetkin wrote

Whippany Paper Board Company (continued)

a letter to the company on August 8, 1969, informing them of the situation, and requesting that they repair the pipe immediately. The Company informed the Inspectors that it would replace the entire line while the company employees were on strike. The Commissioners were promised that the line would be replaced prior to the return of normal operations by this company, and that during the time of the strike, no material would be in this line, and therefore there would be no pollution. As of August 21, this repair had been made and all source of potential pollution had been eliminated.

December 29, 1969

On December 29th, a broken sanitary sewer line underneath the sidewalk at this plant allowed industrial waste to enter into a nearby catch basin, and thence to the Passaic River. The plant was shut down,coincidentally,with the discovery of this break, and all repairs were to be made prior to the opening of the plant on January 5, 1970. This would be checked by the Commissioners.

Respectfully submitted,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

S. A. Lubetkin

S. A. Lubetkin
Chief Engineer

946010144

Rocket Car Wash - Cont'd.

the discharge was illegal and must be discontinued. Because nothing had been done for several months, on October 1, 1977 P.V.S.C. threatened to institute suit for injunctive relief.

The plant was closed during January, 1977 while plans were made to tie into the sanitary sewer. On February 3rd work was begun and completed on February 17th. P.V.S.C. agreed to a dismissal of the suit. Violation eliminated.

Scher Brothers - 1 Styertowne Road, Clifton
06/21/76 - 02/8/77

Large amounts of foam in Hughes Lake, Passaic, were traced back through McDonald Brook to the above company. In front of the five (5) storage tanks in the yard were large puddles of white liquid on the ground which was being washed by rain to a catch basin which led to McDonald Brook. The company agreed to correct this condition.

The company, in stages, build dike facilities to contain spills around the tanks and a special arrangement to drain off any spills into the sanitary sewer. Work was completed February 17, 1977 and the violation eliminated.

S. Schweid (Abattoir) - 238 East 5th Street, Paterson
02/11/77

A red coloration in the Passaic River was observed by a river inspector at the rear of the Schweid slaughterhouse. Mr. Hansen, Maintenance Superintendent, explained that a clogged sewer prevented animal blood from draining into the sewer. Although operations had been halted, some of the blood flowed along the floor through a hole in the building to the river.

The sewer was cleaned out the same day and the violation eliminated.

Sun Oil Company - Doremus Avenue, Newark
02/01/77

P.V.S.C. was notified that a barge, being filled with #2 fuel oil, had overflowed, discharging about 20 gallons into the Passaic River. Employees quickly contained the oil and cleaned it up. Violation eliminated.

Whippany Paper Board - 1 Ackerman Avenue, Clifton
02/06/77 - 02/07/77

A break in the main sanitary sewer line on Feburary 6, 1977 was reported by Mr. Collier, Plant Superintendent. When the flow was observed discharging to the Dundee Canal, he halted all plant operation. The line was repaired on February 7, 1977. Violation Eliminated.

KLL028837

ABK000341

946010145

City of Passaic - Weasel Brook

05/18/77 - 06/13/77

A blocked sanitary sewer on Hope Avenue was being cleaned out, when an observant river inspector noted an illegal connection of a 6" sanitary line to the storm sewer under the Pantasote Company. He informed Mr. Sabota, Sewer Superintendant, that this was an illegal connection and must be sealed. Following a street cave-in caused by a broken sewer undermining the road, 90 feet of 12" clay pipe had been replaced and the illegal 6" connection had been sealed. Violation eliminated on June 13, 1977.

City of Passaic - Central Avenue Storm Sewer

06/13/77

A blockage of a sanitary sewer at the corner of Central and Highland Avenues caused an overflow to a storm sewer catch basin and then to Weasel Brook. The Passaic sewer department crew was working near by and they quickly cleared the blocked sewer, thus eliminating the violation.

J. W. Pierson Co. - 89 Dodd Street, East Orange

06/01/77 - 06/03/77

A truck loading #2 fuel oil on June 1, 1977 at the above company, rolled away from the loading platform, breaking the connecting hose and spilling 100 gallons of the fuel on the ground. It ran into the storm sewer, before employees could stop the flow, and entered Lloyd Brook then Second River. They placed a boom in Lloyd Brook and removed oil and water from the brook and on the gound. By June 3, 1977 the oil was cleaned up and the violation eliminated.

Universal Metal Chain Company - 2 Ackerman Avenue, Clifton

05/25/77 - 05/31/77

On May 25, 1977 a river inspector noted oil on the ground of the above company being washed into the Passaic River by water from a sprinkler repair job. He directed them to clean up the oil to prevent it from entering the river. He also suggested better housekeeping and handling of their wastes. They changed their waste containers to a leak proof type and have no further leaky oil problems. Violation eliminated.

Whippany Paper Board Co. - 1 Ackerman Avenue, Clifton

06/01/77

At 7:00 A.M. on June 1, 1977, Mr. Collier, Plant Superintendent, called P.V.S.C. to advise that a 3/4" cleanout cap had blown off the 20" company force main and discharged sewage to the Passaic River. All operations in the plant were stopped. A new cap was installed and the plant was back in operation by 11:30 A.M. Violation was eliminated.

KLL028825

ABK000342

946010146

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COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

118A

December 9, 1977

DEC 27 1977

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey

Re: Bi-Monthly Report
September and October 1977

Gentlemen:

The following is my report which covers the months of September and October 1977, and consists of three parts:

Part I: Special Reports

#1 - The Passaic River — Page 1

#2 - Water, Water Everywhere ..." — Page 8

#3 - Who Pays When A Public Body Is Fined? — Page 10

#4 - Wastewater Treatment Residual Management (Sludge) — Page 11

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred. — Page 15

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution. — Page 26

KLL028773

ABK000343

946010148

Violation and Elimination - Universal Metal Chain (con't.)

During the investigation they found sewage overflowing from a sanitary sewer pump station through an overflow line and into the Passaic River. Closer examination revealed that a fuse was blown and the pump was not operating. As soon as the fuse was replaced, the pump operated normally, and the level dropped sufficiently to halt the pollution. The storm sewer line was then flushed with fresh water. Inspector Fiore suggested that the company install a high level alarm to warn of a pump failure.

Although this violation is being eliminated, PVSC will take action to insure that the company puts in protective devices to prevent a recurrence. In addition, if the company desires to maintain the emergency overflow, it must get an NPDES permit.

Violation and Elimination - Whippany Paper Board Company, Inc., 1 Ackerman Avenue, Clifton, N. J.
September 8, 1976 - October 31, 1977 (T. Costello)

PVSC routinely receives copies of Draft NPDES Permits from USEPA on companies that discharge to the Passaic River and its tributaries within the PVSC district. Inspectors investigate the plants and sample the various discharges to insure they are in compliance with PVSC regulations and the NPDES permit requirement. PVSC received such a permit on Whippany Paper Board Company and two of the five outlets sampled on September 8, 1976 were considered to have values above which PVSC considered acceptable for discharge into the river. They serve outlet #002, filter backwash, and outlet #004 boiler blowdown. Mr. Goldberg and Mr. D'Ascensio met with Mr. Elliott Collier, Building Superintendent, on September 21 and reviewed possible alternatives to eliminate the violations. Mr. Collier was advised that these discharges could either be connected to the sanitary sewer or treated prior to discharge in order to reduce the suspended solids and turbidity of the filter backwash discharge (#002) and to reduce the suspended solids, turbidity and pH of the boiler blowdown (#004). Mr. D'Ascensio confirmed this in writing to Mr. Collier on September 24 and at his request forwarded a copy to Mr. Robert Shaw, Assistant to the President, on September 27. Mr. Shaw replied on September 30 and stated that Whippany Paper Board intended to repipe the discharges into the sanitary sewer.

On October 6, Mr. Collier informed Inspector Costello that he had ordered the piping necessary to repipe the boiler blowdown to the sanitary sewer.

Mr. A. Grier, Chief Engineer, later informed PVSC that the piping of the boiler blowdown to the sanitary sewer was a temporary measure in order to eliminate the violation, but ultimately there would be installed a system to recirculate the water back to the mill supply for reuse.

Violation and Elimination - Whippany Paper Board Company (cont.)

The blowdown tank was set in place in January and the necessary valves were installed. Work was halted February 7-9 because of repair work involved in another pollution (see Violation and Elimination, Whippany Paper Board, Jan-Feb. Report pg. 30). By Feb. 28, the manifold was being welded to the blowdown tank.

On March 12 the lines were installed and the discharge from outlet 004 (boiler blowdown) into Dundee Canal was eliminated. This water is now recirculated for reuse in their paper making process. On March 14, Mr. Grier confirmed this in writing to Mr. Lubetkin.

Mr. Robert Shaw wrote to Mr. D'Ascensio on April 1 and outlined efforts to eliminate the violation from outlet 002 (filter backwash). He stated that although the engineering study had been completed, it would take about five months to get the pump based on delivery information from the vendor. The pump was ordered in early April.

It is worthy of note that the flow from the filter backwash was polluting for approximately 10 minutes starting 9:00 A.M. and 1:00 A.M. each day. The flow was estimated at 300 gallons per minute. Outside of those times, the discharge was non-polluting.

The pump was finally delivered and the piping completed. On October 31, Mr. Robert Harz, Chief Engineer, wrote to Mr. Lubetkin and stated that all modifications had been completed and the discharge #002 had been eliminated. He also informed Mr. Richard Baker of USEPA on November 2, 1977.

Violation and Elimination - White Metal Manufacturing Company, 220 Goffle Road, Hawthorne, N. J.
August 19 - September 16, 1977 (J. Parr)

On August 19, 1977, while making an inspection of Goffle Brook at Wagaraw Road, Inspector Parr observed that the water in the brook contained a milky white substance with a brown oil slick on the surface. He immediately took a sample and began to check the catch basins on Wagaraw Road and Goffle Road.

At a catch basin on Goffle Road, about 25 feet north of No. 8th Street, Hawthorne, he observed a heavy grey liquid flowing from an 8-inch pipe to the catch basin. The pipe came from the direction of White Metal. After taking a sample of the material entering the catch basin, he went to the plant and met with Mr. Peter Braddock, Plant Engineer, who explained that earlier in the day, a recycling tank that contained 1,000 gallons of water soluble oil purchased from Clarkson and Ford, Clifton, leaked through a broken line and ran into a sanitary sewer drain.

When Inspector Parr inspected the area with Mr. Braddock, he observed a pit beneath the tank with a drain at the bottom of the pit. Inspector Parr introduced dye into the drain and they went

NE T. PERRAPATO
IRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

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CHARLES A. LAGOS
COMMISSIONERS

PASS VALLEY SEWERAGE COMMISSIO. S
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

RECEIVED
AUG 2 1977
INTERSTATE SANITATION
COMMISSION

July 27, 1977

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Bi-Monthly Report
May and June 1977

Gentlemen:

The following is my report which covers the months of May and June 1977, and consists of three parts:

Part I: Special Reports

#1 - The Passaic River May-June 1977 Page 1

#2 - A Potpourri of Problems Page 8

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred Page 14

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution Page 30

KLL028672

ABK000346

946010152

Violation - Whippany Paper Board Company, Inc.,
1 Ackerman Avenue, Clifton, N. J.

September 8, 1976 - June 30, 1977 (T. Costello)

See the PVSC's 1976 Annual Report, page 221.

The pollution involved the boiler blowdown going to the Passaic River. Mr. A. Grier had informed PVSC that the Whippany Paper Board Company intended to pipe the boiler blowdown to the sanitary sewer as a temporary measure in order to eliminate the violation, although ultimately there would be installed a system to recirculate the water back to the mill supply for reuse.

The blowdown tank was set in place in January and the necessary valves were installed. Work was halted February 7-9 because of repair work involved in another pollution (see Violation and Elimination, Whippany Paper Board Company, page 30). By February 28, the manifold was being welded to the blowdown tank.

On March 12 the lines were installed and the discharge from outlet 004 (boiler blowdown) into Dundee Canal was eliminated. This water is now recirculated for reuse in their paper making process. On March 14, Mr. Grier confirmed this in writing to Mr. Lubetkin.

Mr. Robert Shaw wrote to Mr. D'Ascensio on April 1 and outlined efforts to eliminate the violation from outlet 002 (filter backwash). He stated that although the engineering study had been completed, it would take about five months to get the pump based on delivery information from the vendor. The pump was ordered in early April.

It is worthy of note that the flow from the filter backwash is polluting for approximately 40 minutes starting 9:00 A.M. and 1:00 A.M. each day. The flow is estimated at 300 gallons per minute. Outside of those times, the discharge is non-polluting.

Respectfully submitted,

S. A. Lubetkin,
Chief Engineer

SAL/kl

KLL028717

ABK000347

946010153

1187

CARMINE T. PERRAPATO
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT J. DAVENPORT
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CHARLES A. LAGOS
COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

March 25, 1977

RECEIVED
APR. 1 1977
INTERSTATE SANITATION COMMISSION

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey

Re: Bi-Monthly Report
January and February 1977

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Part I: Special Reports

#1 - General Operational and Progress Report on PVSC Work ..... Page 1

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#3 - Oil Lake ..... Page 10

#4 - Amendments to the Federal Water Pollution Control Act ..... Page 11

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred ..... Page 14

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution ..... Page 32

KLL028583

ABK000348

946010155

Violation and Elimination - Whippany Paper Board Company, Inc., 1 Ackerman Avenue, Clifton, N. J.

February 6-7, 1977 (T. Costello)

At 9:00 A.M. on February 7, 1977, PVSC received a call from Mr. E. Collier, Plant Superintendent, concerning a break in a sanitary sewer line. PVSC was informed that at about 11:00 A.M. on February 6 (Sunday), a break was discovered in the plant's main sewer line at the corner of Cheever and Ackerman Avenues. Water bubbled out of a hole in the concrete roadway, ran east along the gutter to a catch basin, and thence to the Dundee Canal.

Mr. Collier stated that when he realized that pollution was reaching the canal, he shut down the plant, except for non-contact cooling water. He then contacted A. Ferraiuolo Jr. and Sons of Whippany to make the necessary repairs. While Inspector Costello was at the plant, the contractors arrived and began the excavation. All the water in the plant was then shut off at 10:05 A.M., and by 2:45 P.M. a steel sleeve had been installed over the break in the sewer, concrete poured by 3:15 P.M., and by 3:55 P.M. the excavation had been backfilled and the violation eliminated. Plant operations were again resumed.

Violation and Elimination - White Metal Products, 220 Goffle Road, Hawthorne, N. J.

Dec. 3, 1976 - Jan. 31, 1977 (W. Fiore and J. Perrapato)

While making routine inspections in Hawthorne on December 3, 1976, Sup't. Cupo and Inspector Fiore observed a slight amount of oil in Goffle Brook. They traced it to White Metal Products and to a discharge from a ground water sump pump located in the basement. Drums of lubricating oil were stored in this room, and occasionally oil was spilled when a transfer was made from the drums to the oil cans. The oil, finding its way into the sump, was discharged with the ground water onto a driveway at the rear of the property, where it then flowed into a catch basin on Goffle Road, and thence into Goffle Brook. The pump operated for about 15-20 seconds, every 10 to 15 minutes.

Sup't. Cupo and the inspector met with Mr. Donald Sime, Plant Manager, and Mr. Peter Braddock, Plant Superintendent. Sup't. Cupo informed Mr. Braddock that although the sump pump pumped ground water, since it was contaminated with oil, a USEPA permit would be required. Mr. Braddock then informed them that he would examine the possibility of connecting the discharge to the sanitary sewer via an oil separator.

When Sup't. Cupo and Inspector Fiore visited the plant on December 6, Mr. Braddock informed them that they would collect the contaminated water in drums and have a scavenger dispose of it. He also stated that he would contact the Borough Plumbing Inspector for information on connecting to the sanitary sewer.

118 A

CARMINE T. PERRAPATO
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT J. DAVENPORT
BEN W. GORDON
JOSEPH M. KREGAN
CHARLES A. LAGOS
COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

November 29, 1976

RECEIVED
DEC 9 1976
INTERSTATE SANITATION COMMISSION

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Monthly Report
October 1976

Gentlemen:

The following is my report which covers the month of October 1976, and consists of three parts:

Part I: Special Reports

#1 - Federal Financing Page 1

#2 - The Passaic River Page 7

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred.....Page 11

Part III: Pollution violations that were still discharging, at the end of the month, into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution.....Page 14

KLL028518

ABK000350

946010158

Violation - Union Building and Construction Corp. (con't.)

a white discharge flowing into the brook from a 36 inch storm sewer on Valley Road.

He then traced the discharge to a storm sewer catch basin on Old Notch Road. A large volume of water containing the white material flowed down the mountain and into the catch basin. When Mr. Cuccinello climbed the mountain, he observed that the material came from large collecting plts of the Union Building and Construction Corporation. A sample taken at that time was polluting.

Mr. Cuccinello then met with Mr. Ferguson, Plant Manager, and informed him that the collecting pits were not settling properly and that as a result, the stone dust was washed into Pearl Brook causing the pollution. Mr. Ferguson stated that he would clean out the pits and repair the damaged dam in order to increase the retention time.

Violation - Whippany Paper Board Company, Inc.
1 Ackerman Avenue, Clifton, N.J.
September 8 - October 31, 1976 (T. Costello)

PVSC routinely receives copies of Draft NPDES Permits from USEPA on companies that discharge to the Passaic River and its tributaries within the PVSC district. Inspectors investigate the plants and sample the various discharges to insure they are in compliance with PVSC regulations and the NPDES permit requirement. PVSC received such a permit on Whippany Paper Board Company and two of the five outlets samples on September 8, 1976 were considered to have values above which PVSC considered acceptable for discharge into the river. They serve outlet #002, filter backwash, and outlet #004 boiler blowdown. Mr. Goldberg and Mr. D'Ascensio met with Mr. Elliott Collier, Building Superintendent, on September 21 and reviewed possible alternatives to eliminate the violations. Mr. Collier was advised that these discharges could either be connected to the sanitary sewer or treated prior to dischage in order to reduce the suspended solids and turbidity of the filter backwash discharge (#002) and to reduce the suspended solids, turbidity and pH of the boiler blowdown (#004). Mr. D'Ascensio confirmed this in writing to Mr. Collier on September 24 and at his request forwarded a copy ot Mr. Robert Shaw, Assistant to the President on September 27. Mr. Shaw replied on September 30 and stated that Whippany Paper intended to repipe the discharges into the sanitary sewer.

Violation - Whippany Paper Board Co. (con't.)

On October 6 Mr. Collier informed Inspector Costello that he had ordered the piping necessary to repipe the boiler blowdown to the sanitary sewer. Mr. Andrew Grier, Chief Engineer, informed Inspector Costello on October 27 that he expected delivery of the material on November 2 and that the work would take about three months to complete, also requiring a plant shutdown of about three days.

Respectfully submitted,

S. A. Lubetkin
Chief Engineer

McMAHON
CHAIRMAN
IC W. CUCCINELLO
VICE CHAIRMAN
RMINE T. PERRAPATO
ENJAMIN W. GORDON
SAMUEL L. BIBER
COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
790 BROAD STREET
NEWARK, N. J. 07102

SEYMOUR A. LUBETKIN
CHIEF ENGINEER
THOMAS E. DURKIN, JR.
ATTORNEY
MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

January 31, 1969

POLLUTIONS CORRECTED DURING 1968

The following is a report of pollutions which occurred in the Passaic River below the Great Falls, or one of its tributaries, which were corrected during the year 1968. Each report will show the source of pollution, the dates of pollution, and the river inspector assigned to the violation until eliminated.

BERGEN COUNTY

Alexander's Department Store, Route #17 and #4, Paramus, N.J.
January 1, to July 12, 1968. (A. Goldberg)

This store had a 40,000, gallon a day activated sludge treatment plant which discharged into Sprout Brook. During the first half of the year, 27 samples were taken from this plant and analyzed, of which 6 were found to be polluting, usually from insufficient chlorination and in one case insufficient treatment. During July 1968, this plant was discontinued and the waste was discharged into the Paramus Sewer System.

Borough of Fairlawn
February 14, 1968 (T. Costello)

An oily film in Henderson Brook, Industrial Park, was traced to a screen used by the Fairlawn Public Works Dept. to prevent debris from going further down stream. Mr. Andrew Ryan, Supervisor of Public Works, was contacted, and he had his men clean the screens, removing oily material, thus eliminating the oil pollution.

May 15th, & 16th, 1968

A blocked sanitary sewer on River Road, at the mouth of Hendersc Brook caused a discharge of industrial wastes and sanitary sewage to enter the stream. Mr. Leonard Knapp, was contacted and the blockage was removed, as of 2:00 P.M., May 16th, eliminating pollution.

KLL005614

ABK000353

946010162

J. L. Prescott, 8th. Street, Passiac, New Jersey
May 23, 1968 (R. Goldstein)

Detergent in the Passaic River was traced back to this firm. A fork truck, unloading detergent, had broken a drum of the liquid detergent and the material was washed off the platform into the yard drains, which thence reached the river. Officials were warned to be more careful in order to prevent future spillages and also should a spill occur, the officials should find other methods of cleaning up the waste without washing it into a storm drain.

Regal Dyeing Co., 1 Van Houten St., Paterson, New Jersey
September 23, -October 11th. (L. Tateo)

A colored material in the river was traced to this company, upon notifying the officials, it was discovered that the sewer leading from this plant to the Paterson sewer was inadequate to take the volume of material and that an overflow from their boil-off operation reached the floor and thence, through floor drains, to the Passaic River. Upon being notified to cease pollution, the firm dug up the smaller pipe and replaced it with a larger 10" pipe, thus giving their plant system more capacity to take this dye discharge to the Paterson system, thus halting pollution from the overflow. Work was completed October 11, 1968.

Ultra Division of Witco Chemical Co., 2 Wood St., Paterson, N.J.
(L. Tateo)

There had been intermittant pollutions from this plant from spills near a catchbasin located in the loading area. A conference was held with the official of this plant on May 9, 1968, to see if they could re-pipe the two catchbasins involved from the storm sewer, into the Passaic Valley trunk line, so that loading spills would not reach the Passaic River.

The officials of this firm agreed and this work was completed by June 29, 1968.

August 26, 1968.

While the company was cleaning some tanks, water, containing detergents, spilled and went directly into the river. The company immediately halted this method of cleaning when warned by the Commissioners that this was in violation of New Jersey statutes.

Whippany Paper Board Co., Ackerman Avenue, Clifton, New Jersey
January 15-17, 1968 (R. Goldstein)

On Monday, January 15th., at about 7:30 A. M. the Commissioners were notified about a break in the sewer line. Upon investigation, the Commissioners noticed seepage from the sidewalk in the front of the Whippany Plant. Upon talking to the Whippany officials, we were informed they had already contacted the contractor to

open the sidewalk and find the source of the trouble. When the sewer was excavated it was discovered that a joint had broken in the Whippany 20" pressure sewer. This was repaired and the work was completed, Wednesday, January 17th., halting the pollution.

White Metal Mfg. Company, 220 Goffle Road, Hawthorne, New Jersey
October 21, 1968 (T. Costello)

A strip coiling machine leaked oil from one of its cylinders. This oil reached a drain together with cooling water and went to a storm sewer, thence to Goffle Brook, a tributary of Passaic River. When notified, by the Passaic Valley inspector, the cylinders were repaired and the pollution ceased.

CARMINE T. PERRAPATO
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT J. DAVENPORT
BEN W. GORDON
JOSEPH M. KEEGAN
CHARLES A. LAGOS
COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

October 18, 1976

RECEIVED
DEC 16 1976
INTERSTATE SANITATION COMMISSION

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Monthly Report
August and September 1976

Gentlemen:

The following is my report which covers the months of August and September 1976, and consists of three parts:

Part I: Special Reports

#1 - Model Sewer Ordinance for Municipalities Discharging into the PVSC System. Page 1

#2 - The Passaic River Page 28

Part II: Pollution violations that were eliminated during the months, together with a report on how elimination occurred..... Page 35

Part III: Pollution violations that were still discharging, at the end of the month, into the streams under the jurisdiction of the Passaic Valley Sewerage Commissioners, together with a report on what is being done to abate such pollution..... Page 51

KLL028284

ABK000356

946010166

Violation - Scher Brothers (con't)

Inspection during the rain on July 7, 1976 confirmed that the prevention work was inadequate since the coconut oil inpregnated ground still gave forth a foaming pollutant which flowed into the adjacent Beechan parking lot. On July 14, 1976 Sup't. D'Ascensio by letter, put Scher Brothers on notice that the pollution continued and they were directed to take immediate action to halt it at once.

Mr. B. Potash replied on July 20 and also wrote a progress report on July 26, 1976 informing PVSC that they had a contractor remove areas of surface soil that appeared contaminated and had the material replaced by clean fill. He also stated they were moving ahead on a program to eliminate the use of hoses on their property and to collect as much rain water run-off as possible.

Inspector Costello reported that during the heavy rain on July 23, 1976 he saw no foam in the area.

On August 19 Mr. Potash wrote to Mr. D'Ascensio and reviewed what additional work he intended to do to eliminate the violation. He was ready to have the Contractor, Mr. Robert DeVito, dike the rear platform to contain any spills and to line the pit area under the storage tanks with concrete to prevent seepage. He also wished to install an emergency drain line from the corner of the pit through a locked shut off valve to the sanitary sewer to periodically drain the pit of wash water. Next he intended to install piping from the storage tank area to the building to eliminate the use of truck hose as much as possible. Finally the entire area would be seeded.

Although the impregnated ground had been removed and frequent inspections had shown that no ground seepage was reaching the storm sewer, the potential for a pollution still existed and therefore the violation will be carried until the the programs, as outlined by Scher Brothers had been carried out. Mr. Potash reported to Inspector Costello that, although he received a verbal commitment from Mr. DeVito that construction would begin on September 23, no action had been taken and he was considering hiring a new contractor.

Violation - Whippany Paper Board Company, Inc.
1 Ackerman Avenue, Clifton, N.J.
September 8-30,, 1976 (T. Costello)

PVSC routinely receives copies of Draft NPDES Permits from USEPA on companies that discharge to the Passaic River and

Violation - Whippany Paper Board Company, Inc. (con't)

its tributaries within the PVSC district. Inspectors investigate the plants and sample the various discharges to insure they are in compliance with PVSC regulations and the NPDES permit requirement. PVSC received such a permit on Whippany Paper Board Company and two of the five outlets sampled on September 8, 1976 were considered to have values above which PVSC considered acceptable for discharge into the river. They serve outlet #002, filter backwash, and outlet #004 boiler blowdown. Mr. Goldberg and Mr. D'Ascensio met with Mr. Elliott Collier, Building Superintendent, on September 21 and reviewed possible alternatives to eliminate the violations. Mr. Collier was advised that these discharges could either be connected to the sanitary sewer or treated prior to dischage in order to reduct the suspended solids and turbidity of the filter backwash discharge (No. 002) and to reduce the suspended solids, turbidity and pH of the boiler blowdown (No 004). Mr. D'Ascensio confirmed this in writing to Mr. Collier on September 24 and at his request forwarded a copy ot Mr. Robert Shaw, Assistant to the President on September 27. Mr. Shaw replied on September 30 and stated that Whippany Paper intended to repipe the discharges into the sanitary sewer.

Respectfully submitted,

S.A. Lubetkin,
Chief Engineer

New Jersey State Business Gateway Service

Corporate and Business Information Reporting

Business Entity Status Report

Printing Instructions: Open your Browser's Page Setup menu and set your page margins to 0.25". Use your Browser's Print option to print the report as seen on screen.

Saving Instructions: Save this file to your hard drive for later viewing by using the Browser's "Save As" function.

All available information is displayed.

Status Report For: EDEN WOOD CORPORATION

Business Name: EDEN WOOD CORPORATION
Report Date: 03/10/2006
Business ID Number: 0100773070
Transaction Number: Sequence: 872370: 1

Business Type: FOREIGN PROFIT CORPORATION
Status: ACTIVE

Filing Date: 02/23/1999
Home Jurisdiction: DE
Status Change Date:
Stock Amount: 0
DOR Suspension Start Date:
DOR Suspension End Date:
Tax Suspension Start Date:
Tax Suspension End Date:
Annual Report Month: 10
Last Annual Report Filed: 03/11/2005
For Last Annual Report Paid Year: 2004

Incorporator:
Agent: ALAN R SCHNEIDER

Agent Address: 47 PARSIPPANY RD
WHIPPAY, NJ 07981

Office Address Status: Deliverable

Main Business Address: 47 PARSIPPANY ROAD
WHIPPANY, NJ 07981

Principal Business Address: 47 PARSIPPANY ROAD
WHIPPANY, NJ 07981

Associated Names

Name:	Type Description:

Officers/Directors/Members

1) Title: PRESIDENT
Name: AMY NEU
Address:
WHIPPANY, NJ 07981

2) Title: OTHER
Name: RICHARD NEU
Address:
BEVERLY HILLS, CA 90210

3) Title: SECRETARY
Name: ALAN SCHNEIDER
Address:
WHIPPANY, NJ 07981

Exit | Return to Main List | Next >>

**If you would like to receive photocopies of documents filed by this business entity, mail your request to PO Box 450, Trenton, NJ 08625. Indicate the Business Entity Number(s) involved and the type of document you wish to have copies of. Your choices are listed below:

CHARTER DOCUMENTS

Original Certificate Only (For example, Certificate of Incorporation);

Changes and Amendments to the Original Certificate Only; **OR**

All Charter Documents (Original Certificate and Changes/Amendments)

And/or

ANNUAL REPORTS

Copy of Latest Annual Report; **OR**

Copy of Annual Report for a Specific Year(s) (List the Year Desired)

The photocopy fee for all entities except limited liability companies is $1 per page. For limited liability companies, the fee is $10 for the first page and $2 per page thereafter.

The total fee amount for your order will vary depending on the number of pages associated with each filed document you request. You may supply us with a check with a NOT TO EXCEED instruction to cover the costs. Make the check payable to the Treasurer, State of New Jersey. Alternately, you may pay by credit card (provide card#/expiration date and cardholder information) or depository account. Please include a self-addressed envelope with your order. If you have any questions or would like information on alternative service options such as over-the-counter expedited service, call 609-292-9292 (option 3 on the main menu and then option 8), weekdays, 8:30 a.m. to 4:30 p.m.

Privacy Policy

New Jersey State Business Gateway Service

Corporate and Business Information Reporting

Business Entity Status Report

Printing Instructions: Open your Browser's Page Setup menu and set your page margins to 0.25". Use your Browser's Print option to print the report as seen on screen.

Saving Instructions: Save this file to your hard drive for later viewing by using the Browser's "Save As" function.

All available information is displayed.

Status Report For: EDEN WOOD REALTY LLC

Business Name: EDEN WOOD REALTY LLC | **Report Date: 03/10/2006**

Business ID Number: 0600076651 | **Transaction Number: Sequence: 872370: 2**

Business Type: FOREIGN LIMITED LIABILITY COMPANY

Status: ACTIVE

Filing Date: 10/22/1999 | **Home Jurisdiction: DE**

Status Change Date: | **Stock Amount: 0**

DOR Suspension Start Date: | **DOR Suspension End Date:**

Tax Suspension Start Date: | **Tax Suspension End Date:**

Annual Report Month: 10

Last Annual Report Filed: 09/24/2004

For Last Annual Report Paid Year: 2004

Incorporator:

Agent: CORPORATION TRUST COMPANY

Agent Address: 820 BEAR TAVERN ROAD
WEST TRENTON, NJ 08628 - 0000

Office Address Status: Deliverable

Main Business Address: 47 PARSIPPANY RD
WHIPPANY, NJ 07981

Principal Business Address: 47 PARSIPPANY RD
WHIPPANY, NJ 07981

Associated Names

Name: EDEN WOOD REALTY Type Description: Fictitious Name

Officers/Directors/Members

1) Title: PRESIDENT
Name: AMY NEU
Address: 47 PARSIPPANY RD
WHIPPANY, NJ 07981

2) Title: VICE PRESIDENT
Name: RICHARD NEU
Address: 250 N CANON DR
BEVERLY HILLS, CA 90210

3) Title: VICE PRESIDENT
Name: STEVEN NEU
Address: 2049 CENTURY PARK E
LOS ANGELES, CA 90067

4) Title: SECRETARY
Name: ALAN SCHNEIDER
Address: 47 PARSIPPANY RD
WHIPPANY, NJ 07981

Exit Return to Main List

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Copy of Latest Annual Report; **OR**

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Privacy Policy

Case No. RK272-04466

September 11, 1997

DECISION AND ORDER

OF THE DEPARTMENT OF ENERGY

Supplemental Order

Names of Applicants: Worley's Asphalt & Paving Co., et al.

Date of Filings: June 16, 1997, et al.

Case Numbers: RK272-04466, et al.

This Decision and Order will consider twelve Applications for Supplemental Refund filed in the Subpart V crude oil refund proceeding.(1)

The Appendix to this Decision and Order contains the names of twelve Applicants receiving these supplemental refund checks. In each of these cases, we were informed that there had been a change of circumstances since the original refund was disbursed. Accordingly, we set up a new case file (designated RK272-).(2) We then investigated whether the individual or firm upon whose behalf the form was submitted was the proper party to receive the supplemental refund. On the basis of that investigation, we have determined that the parties listed in the Appendix are the proper recipients for those supplemental refunds.

In accordance with the Applicants' instructions, we will direct the refund checks to the addresses listed in the Appendix. The total amount of additional refunds being approved in this Order for the benefit of twelve Applicants is $40,326.

It Is Therefore Ordered That:

(1) The Director of Special Accounts and Payroll, Office of Departmental Accounting and Financial Systems Development, Office of the Controller of the Department of Energy shall take appropriate action to disburse a supplemental refund to each Crude Oil Refund Recipient set forth in the Appendix to this Order. The total refund amount approved in this Order, for the

benefit of twelve applicants, is $40,326.

(2) The funds shall be disbursed from the escrow fund denominated Crude Tracking-Claimants 4, Account No. 999DOE010Z, maintained at the Department of the Treasury.

(3) Each Applicant shall receive a refund in the amount specified in the attached Appendix. The appropriate address to which each check should be sent is also included in the Appendix.

(4) To facilitate the payment of future refunds, an Applicant shall notify the Office of Hearings and Appeals in the event that there is a change of address, or if an address correction is necessary. Such notification shall be sent to:

Director of Management Information

Office of Hearings and Appeals

Department of Energy

Washington, D.C. 20585-0107

(5) Any conditions that applied to an Applicant's receipt of the initial crude oil refund shall also apply to that Applicant's receipt of this supplemental refund.

(6) This is a final Order of the Department of Energy.

George B. Breznay

Director

Office of Hearings and Appeals

Date: September 11, 1997

(1) For information pertaining to the Supplemental Distribution of Subpart V Crude Oil Refund Monies, see State of Montana, et al., 25 DOE ¶ 85,059 (1995).

(2) The new case number, RK272-, replaces the case number (designated RF272-) which was formerly assigned to each

Application. For future purposes, the Application will be known by the new case number.

	APPENDIX - Worley's Asphalt & Paving Co., et al., Case Nos. RK272-04466, et al.				
Case Number	Applicant Name	Original Case No.	Applicant/Contact	Volume	Refund
RK272-04466	Worley's Asphalt & Paving Co.	RF272-41089	Worley's Asphalt & Paving Co. c/o Kenneth Worley 6531 Hunt Road Burlington, IA 52601	3,129,246	$2,503
RK272-04470	Eden Wood Corporation f/k/a Whippany Paper Board Co., Inc.	RF272-77159	Eden Wood Corporation f/k/a Whippany Paper Board Co., Inc. c/o Becky Hartung 110 South Jefferson Road Whippany, NJ 07981	2,948,634	$2,359
RK272-04471	Erma Puffer f/k/a Raymond H. Puffer, Inc.	RF272-77280	Erma Puffer f/k/a Raymond H. Puffer, Inc. P.O. Box 62	631,418	$505

			Vernon, VT 05354		
RK272-04579	Pepsi-Cola Bottlers of Atlanta	RF272-77501	Pepsi-Cola Bottlers of Atlanta c/o Maria Cafarelli 1 Pepsi Way, MD 5N548 Somers, NY 10589	3,810,181	$3,048
RK272-04580	Pepsi-Cola Bottling Company	RF272-77491	Pepsi-Cola Bottling Company c/o Maria Cafarelli 1 Pepsi Way, MD 5N548 Somers, NY 10589	4,668,505	$3,735
RK272-04591	Bernice Mueller and Marion Pilla and Mary Naeher f/k/a Bailey Farm Dairy	RF272-41274	Bernice Mueller and Marion Pilla and Mary Naeher f/k/a Bailey Farm Dairy 3944 Federer Place St. Louis, MO 63116	430,945	$345
RK272-04592	Norman Lenick f/k/a Lenick's Dairy, Inc.	RF272-17947	Norman Lenick f/k/a Lenick's Dairy, Inc. 3504 South U.S. 35 La Porte, IN 46350	195,813	$157
RK272-04593	Northern Concrete Prod.	RF272-23929	Northern Concrete Prod. Co.	109,011	$87

	Co.				
			c/o William Kuchnicki P.O. Box 767 Petoskey, MI 49770		
RK272-04594	R.G. Tedder and Charles Reneau f/k/a Oneida-Columbus Express	RF272-76435	R.G. Tedder and Charles Reneau f/k/a Oneida-Columbus Express P.O. Box 4382 Oneida, TN 37841	1,059,037	$847
RK272-04595	Estate of Peter H. Sandfort f/k/a Canton Creamery, Inc.	RF272-77084	Estate of Peter H. Sandfort c/o Emil Baur, Executor 154 Kakeout Road Kinnelon, NJ 07405	288,622	$231
RK272-04606	Lockheed Aeronautical Systems Co.	RF272-66674	Lockheed Aeronautical Systems Co. c/o Patricia Green Dept. No. 81-45, Zone 0277 86 S. Cobb Drive Marietta, GA 30063-0277	32,615,118	$26,092
RR272-00302	Myrl Salsbury f/k/a Loyd Salsbury	RF272-43898	Myrl Salsbury f/k/a Loyd Salsbury	521,299	$417

		c/o Janis Whiteman North Route, Box 228 Richey, MT 59259			
TOTAL NUMBER OF APPLICANTS = 12			TOTALS =	50,407,829	$40,326

Results: (what you posted (if anything))
FROM: jmetrione@intell-group.com
NAME: Jon Metrione
REPLYTO: Webmaster@www.hr.doe.gov
SUBJECT: EFOIA Request
CN:
FAX: 908-901-0115
FEE:
PHONE: 908-901-0112
WAIVER:
ADDRESS: 1545 US Highway 206 Bedminster, NJ 07921
DOCDESC: At this time I would like to review any and all information related to Case No. RK272-04470, which has an original case number of RF272-77159. The requested information is in reference to Eden Wood Corporation, f/k/a Whippany Paper Board, and Applications for Supplemental Refund filed in Subpart V crude oil refund proceeding.
EMAILTO: FOIA-Central@hq.doe.gov
COMMENTS: Please contact me when the requested records have been retreived. It will be determined at that time how to proceed based upon the volume of information found. Thank you.
CONTYPES: Contract
DOCUMENT: other
MEDIANAME:
OTHERDESC:
DESCRIPTION: company
MEDIATYPEOTHER:

Output forwarded to FOIA-Central@hq.doe.gov

Page __ of __

ECRA
Environmental Concern Tracking Sheet

INDUSTRIAL ESTABLISHMENT

Name Whippany Paper Board Co., Inc.

City Clifton City Case Number 85193

VIOLATIONS

RCRA	NJPDES	APC	other	other

SOURCE

Drum Storage	✓	Waste Pile		Seepage Pit		Tank Farm	✓
Discharge		Monitor Well		Dumpster		Transformer	
Potable Well		Floor Drain		Bld. Decontam.		other	✓
Roof Drain		Septic System		Asbestos		other	
UGST	✓	Lagoon		Spill		other	

POTENTIAL AREAS OF CONTAMINATION

Location of Concern	Pollutants		Outcome
1 Drum storage area out side stained soils observed on ground where drums were formerly stored	Lead ~~[illegible]~~ Copper Mercury PHC	Concentration Lead 2420 ppm Copper 705 ppm Mercury 1.5 ppm Action Level Lead [illegible] ppm 100 PHC Copper 170 ppm Mercury 1 ppm	1 clean and sample uncontaminated soils. remediation [illegible] in Clean [illegible] [illegible] soil etc. and [illegible] of [illegible] RCRA [illegible] - all [illegible] [illegible]
2. waste drum storage area. Drums dented not labeled and dated oil on top of drums Second floor lube oil drum leaking oil [illegible] floor	waste lube oils	Concentration Action Level 100 PHC	No sampling required. NFA required. Same as above

New Jersey Department of Environmental Protection

ABK000415

946010185

ECRA Environm... al Concern Tracking Sheet Continued

Case Number 85152

POTENTIAL AREAS OF CONTAMINATION

Location of Concern	Pollutants		Outcome
3. UGST removed, oil observed on soil underneath tank	fuel oil PHC	Concentration 6600 PPM Action Level 100 PHC	removed and perform post excavation sampling No further action required
4. Above ground fuel oil tank had contaminated soil underneath the fill pipe	fuel oil PHC	Concentration Action Level 100 PHC	remove soil and perform post excavation sampling Remediation addressed in Cleanup plan - 26 cyds. soil ex. & disposed of as EPA [illegible]
5 Unidentified pit 4" diameter in the 2nd floor boiler room. The pit was filled with an oily substance	unk ?	Concentration Action Level	Describe in detail the pit and show all connections Discharge to Sewer System No further action required
6 Five GW wells installed waiting second round of sampling results	VOS Cyanides Phenols	Concentration VOS up to 3 ppb Cyanides 10 ppb Pn < 5 ppb Action Level - Expected to be [illegible] - No action - No action	Depending on soils remediation further monitoring ~~well~~ of GW may be required. - Post ex. results reviewed by CEWQC - no further monitoring well needed - NFA accepted -
7 Transformer area	PCB	Concentration 1.3 Action Level 5.0	No further action required
		Concentration Action Level	

ABK000416

946010186

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

FEB 24 1986

MEMORANDUM

TO: Robert Dante through Joseph Galley, Supervisor, Bureau of Industrial Site Evaluation, DWR

FROM: Theodore J. Hayes through Walter S. Samsel, Supervisor, Bureau of Ground Water Pollution Analysis, New Jersey Geological Survey

SUBJECT: Review of the 25 July 1985 Sampling Plan and its 4 February 1986 Addendum for Whippany Paper Board Company, One Ackerman Avenue, Clifton, Passaic County ECRA Case #85-193

Review

The above-referenced site is bounded by the Passaic River, the Dundee Canal, and Ackerman Avenue. The Passaic River bank is shored up by sheet pilings. The above cited submittals and Robert Dante's site inspection report of 2 October 1985 identifies six areas for environmental concern, they are:

a. Tank #1, a 1,000-gallon underground tank containing mineral spirits;

b. Tank #2, a 3,000-gallon underground tank containing mineral spirits

c. Tank #3, a 4,000-gallon underground tank containing hydraulic oil;

d. Tank #4, a 1,000-gallon underground tank containing #2 fuel oil;

e. Stained soils at the fill line for an above ground 160,000- gallon #6 fuel oil tank;

f. Stained soils in the drum storage area

Petroleum hydrocarbon contamination of soils in excess of 100 ppm, has been identified at all the underground tank storage areas. The stained soils at the above ground tank and at the drum storage area have not been sampled or analyzed. The 4 February 1986 sampling plan addendum proposes the installation of three (3) monitoring wells: an upgradient monitoring well; a monitoring well in close proximity to Tank #1, which has been identified as the tank location having the most contaiminated soils; and, a downgradient monitoring well at the property boundary.

Recommendations and Comments

The 4 February 1986 Sampling Plan Addendum does not address, all areas potentially contributing to ground-water contamination. Tanks 1,2,3, and 4 have caused petroleum hydrocarbon contamination to soils located immediately above the water table; however, the Addendum only proposes to install a monitoring well at Tank 1. Following are my comments and recommendations:

1. Monitoring wells must be installed at Tank 2, and Tank 3, in addition to the three (3) proposed monitoring wells. Monitoring wells must be installed at the above ground 160,000-gallon fuel oil tank and at the drum storage area if soil sampling and analysis identifies contamination at these locations. If this phased approach is unacceptable to Whippany Paper Board Company, it is suggested that these two monitoring wells be installed simultaneously with soil sampling. The location for each well is to be field determined in consultantion with a N.J. Geological Survey staff geologist. Based on the results of the ground-water investigation additional wells and piezometers may be necessary to define the horizontal and vertical extent of contamination.

2. Sample and analyze the ground water from each monitoring well for volatile organics, xylene isomers, (EPA Method 624) plus 15; base neutrals plus 15 and acid extractables (EPA Method 625); and, petroleum hydrocarbons (EPA Method 418.1). As part of this package, copies of the fully marked chromatograms (including surrogate and interval standards) for the sample and blank runs must be submitted. An analysis of the mineral spirits and hydraulic oils used on site must be provided so that additional parameters can be added to the required ground-water analysis. At each source area, where free product is encountered, sample the free product to determine the specific gravity of the product so that corrections to the measured water levels can be

made. After the monitoring wells are purged 3 to 5 times the standing water volume, the water sample must be collected no deeper than 3 feet below the water level with a bailer.

3. In each monitoring well install 15 feet of screen: screened from 5 feet above to 10 feet below the water table (Attachment). If wells are to be completed at or below grade, all monitoring well caps must be fitted with an expanding plug and must not be vented to the atmosphere so as to prohibit surface water from entering the well.

4. Top of casings, ground elevations, static water levels, product levels, and product thickness must be submitted in tabular form for all the monitoring wells.

5. Construct ground-water elevation contour maps. Any corrections made to the static water levels, because of the presence of free product must be reported.

6. Stained soils at the 160,000-gallon fuel oil tank and at the drum storage area must be sampled and analyzed to determine the need for monitoring wells at these lcoations. Sampling and anlaysis requirements must be sought from the Bureau of Environmental Evaluation and Risk Assessment for these locations.

7. During my site of 19 February 1986, I noted two (2) transformers on site. Documentation must be provided that they did not contain polychlorinated biophenyls (PCBs).

TJH:edg

cc: HK/WFA/File
Phil Sandine, BEERA

Attachment

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS SITE MITIGATION ADMINISTRATION
BUREAU OF INDUSTRIAL SITE EVALUATION

ENVIRONMENTAL CLEANUP RESPONSIBILITY ACT
INITIAL NOTICE
GENERAL INFORMATION SUBMISSION

(This is the first part of a two-part application form. This information must be submitted within 5 days following public release of a decision to close operations or the signing of a sales agreement or option to purchase involving an Industrial Establishment as defined in N.J.S.A. 13:1K-6, the Environmental Cleanup Responsibility Act.)

Please refer to N.J.A.C. 7:1-3.7 et seq. before filling out this form. Answer all questions. Please print or type.

Date March 1985

1. A. Industrial Establishment

Name Whippany Paper Board Co., Inc. Telephone No. 887-3300

Street Address One Ackerman Avenue

City or Town Clifton State N.J. Zip Code 07011

Municipality _____ County Passaic

B. Lot number 1 Block number 4-15

C. Standard Industrial Classification (SIC) Number 2388

D. Current Owner

Name Whippany Paper Board Co., Inc. Telephone No. 887-3300

Street Address One Ackerman Avenue

Municipality Clifton State N.J. Zip Code 07011

E. If the industrial establishment discharges to a publicly-owned treatment plant, provide the name and address of that facility.

Name Passaic Valley Sewage Authority Telephone No. 344-1800

Street Address 600 Wilson Avenue

Municipality Newark State N.J. Zip Code 07105

FOR DEP use only
Date Received _____
Notice Number _____

ABK000443

946010192

F. Has an ECRA application been filed for this Industrial Establishment or location previously? _____ If so, when? _____ For what reason? _____

_____

Final Disposition? _____

G. How is this Industrial Establishment heated?(gas,oil,electricity) Oil

2. Previous owner(s) and current address (es)(attach additional sheets if necessary).

Name	Current Address	Description of the Operation
Same		
Purchased by Wiffany Paper Board in 1930		

3. If the transaction initiating an ECRA review is the closure of operations, fill in the date of public release of the decision to close the facility and enclose a copy of the public announcement. N/A

Date of the public release of the decision _____

Is the public release enclosed? _____ Yes _____ No

If you checked "no", state the reason(s) _____

_____

_____

INITIAL NOTICE-GENERAL INFORMATION SUBMISSION (page 3 of 6)

4. If the transaction initiating an ECRA review is an agreement of sale or option to purchase, fill in the date of the execution of that instrument plus provide a copy of the document March 13, 1985

Name and address of the other parties to the transfer:

Name	Street Address and Municipality	Phone No.
V. Ponte & Sons Inc.	511 Canal Street New York, N.Y. 10013	212-966-5420

Is a copy of the agreement of sale or option to purchase attached? ____ Yes X No

If you checked "no", state the reason(s) Buyers Request

5. Actual date proposed for closure of operations or transfer of title June 28, 1985

6. Authorized agent designated to work with the Department.

Name Richer F. Izmirly Whippany Paper Board Co. Inc.

Street Address One Ackerman Avenue

Municipality Clifton State N.J. Zip Code 07011

Telephone No. 201- 887 - 3300 Or 201-546-4668

7. List all federal and state environmental permits applied for and received at this facility (attach additional sheets if necessary).

____ Check here if no permits are involved.

INITIAL NOTICE-GENERAL INFORMATION SUBMISSION (page 4 of 6)

A. New Jersey Bureau of Air Pollution Control.

Permit Number	Date of Approval or Denial	Reason for Denial (if applicable)	Expiration Date
IDF 355	October 1981		1982

B. New Jersey Pollutant Discharge Elimination System

Number	Discharge Activity	Date issued or Denied	Expiration Date	Body of Water Discharged into

C. United States Environmental Protection Agency(EPA) Identification Number.

D. All other federal, state, local environmental permits.

Agency Issuing Permit	Permit Number	Date of Approval or Denial	Expiration Date

8. If applicable, identify all administrative orders, temporary or permanent injunctions, civil administrative penalties, civil penalties, or criminal actions concerning the environment issued against the facility during the last ten years.

__X__ Check here if no enforcement actions are involved

A. Date of Action _____

Section of Law or Statute violated _____

Type of Enforcement Action _____

Description of the violation _____

How was the violation resolved?

B. Date of Action _____

Section of Law or Statute violated _____

Type of Enforcement Action _____

Description of the violation _____

How was the violation resolved? _____

(Add additional pages, if necessary)

Send this completed form to:

N.J. Department of Environmental Protection
Division of Waste Management
Bureau of Industrial Site Evaluation
CN 028
Trenton, New Jersey 08625

Attn: ECRA Initial Notice

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT
HAZARDOUS SITE MITIGATION ADMINISTRATION
BUREAU OF INDUSTRIAL SITE EVALUATION

ENVIRONMENTAL CLEANUP RESPONSIBILITY ACT (ECRA)

APPLICATION FOR ECRA REVIEW

SITE EVALUATION SUBMISSION

This is the second part of a two part application submittal and must be submitted within 30 days following public release of the decision to close operations or execution of an agreement of sale or option to purchase.

DATE March 25, 1985

NAME OF APPLICANT Whippany Paper Board Co., Inc.

ADDRESS One Ackerman Avenue

CITY OR TOWN Clifton, New Jersey ZIP CODE 07011

MUNICIPALITY _____ COUNTY Passaic

SUBMIT THE FOLLOWING:

9. A scaled site map identifying all areas where hazardous substances or wastes have been or currently are generated, manufactured, refined, transported, treated, stored, handled or disposed, above or below ground.

IS THIS MAP ENCLOSED? ___ YES, (See Appendix #___) ___ NO

10. A detailed description of the current operations and process at the industrial establishment organized in the form of a narrative report designed to guide the Department step-by-step through a plant evaluation, with particular emphasis on areas of the process stream where hazardous substances and wastes are generated, manufactured, refined, transported, treated, stored, handled or disposed on site, above or below ground. Please note that establishments which ceased production prior to December 31, 1983, but are subject to ECRA because of on-going storage beyond that date, must provide details on past operations.

IS THIS REPORT ENCLOSED? ___ YES, (See Appendix #___) ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

FOR DEP USE ONLY

DATE RECEIVED _____

NOTICE NUMBER _____

ABK000449

946010199

The Clifton Mill, located in Clifton, New Jersey, manufactures container board, box board and roofing felt. This mill has an estimated annual capacity* of approximately 82,500 tons and operated at approximately 58% of capacity in the twelve months ended June 30, 1978. The Clifton Mill is housed in buildings occupying a total floor area of approximately 169,600 square feet. Truck docking facilities are available at this mill and rail transportation is available nearby.

11.A. A description of the types, age, construction material, capacity, contents, and locations of storage vessels, surface impoundments, landfills, or other types of storage facilities, including drum storage, containing hazardous substances or wastes.

ARE THESE FACILITIES IDENTIFIED ON YOUR SITE MAP OR DESCRIBED IN A NARRATIVE REPORT? X YES, (See Appendix #___) ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

11.B. The Department requires that satisfactory leak tests such as the Petrotite (formerly the Kent Moore test) or the Leak Lokator LD-2000 Test or Soil Borings be performed to verify the integrity of all underground tanks and that the results of such tests be submitted to the Department.

ARE THE RESULTS OF THE LEAK DETECTION TEST OR THE SOIL BORINGS ENCLOSED? ___ YES, (See Appendix #___) X NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

12. A complete inventory of hazardous substances and wastes, including description and location of all hazardous substances or wastes generated, manufactured, refined, transported, treated, stored, handled or disposed on site, above and below ground, and a description of the location, types and quantities of hazardous substances and wastes that will remain on site. (Attach additional sheets if necessary.)

MATERIAL	QUANTITY	LOCATION	METHOD	TO REMAIN ON SITE (YES OR NO)
# 6 Fuel Oil	Appx. 35,000 G	Storage Tank		Yes
# 2 Fuel Oil	Appx. 500 G	Storage Tank		Yes
Kerosine	Appx. 500 G	Storage Tank		Yes
Lub. Oil	Appx. 15 Drums	Inside Mill		Yes

ABK000451

946010201

MATERIAL	QUANTITY	LOCATION	METHOD	TO REMAIN ON SITE (YES OR NO)

13. A detailed description, date and location on a scaled map of any known spill or discharge of hazardous substances or wastes that occurred during the historical operation of the site and a detailed description of any remedial actions undertaken to handle any spill or discharge of hazardous substances or wastes. (Attach additional sheets if necessary.)

IS THIS INFORMATION ENCLOSED? ___ YES, (See Appendix #___) ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): N/A

ARE THE SPILLS IDENTIFIED ABOVE INDICATED ON THE SCALED SITE MAP? ___ YES ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

_____

_____

_____

14. A detailed sampling or other environmental evaluation measurement plan which includes proposed soil, groundwater, surface water, surface water sediment, and air sampling determined appropriate for the site. (This sampling plan must be developed in conformance with ECRA Regulations N.J.A.C. 7:1-3.14 et seq., and Quality Assurance Guidelines as developed by DEP, copies of which are enclosed.)

IS THE SAMPLING PLAN ENCLOSED? ___ YES, (See Appendix #___) ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

_____

_____

_____

15. A detailed description of the procedures to be used to decontaminate and/or decommission equipment and buildings involved with the generation, manufacture, refining, transportation, treatment, storage, handling, or disposal of hazardous waste or substances including the name and location of the transporter, the ultimate disposal facility, and any other organizations involved.

IS THE DETAILED DESCRIPTION ENCLOSED? ___ YES, (See Appendix #___) ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

_____

_____

_____

16. Copies of all soil, groundwater and surface water sampling results, including effluent quality monitoring, conducted at the site of the industrial establishment during the history of ownership by the owner or operator, including a detailed description of the location, collection, chain of custody, methodology, analyses, laboratory, quality assurance/quality control procedures, and other factors involved in preparation of the sampling results;

ARE HISTORICAL RESULTS ENCLOSED? ___ YES, (See Appendix #___) ___ NO

IF YOU HAVE CHECKED "NO," STATE THE REASON(S): _____

_____

_____

17. If you currently have a Spill Prevention Control and Countermeasure Plan (SPCC) for this facility, enclose a copy with this submittal.

IS YOUR SPCC PLAN ENCLOSED? ___ YES, (See Appendix #___).
___ NO, this facility is not required to have an spcc plan.

18. Please list any other information you are submitting: _____

_____

_____

_____

Send complete information package to:

BUREAU OF INDUSTRIAL SITE EVALUATION
DIVISION OF WASTE MANAGEMENT
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
CN-028
TRENTON, N.J. 08625
ATTN: ECRA NOTICE SUBMISSION

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

50 Passaic Avenue, Fairfield, NJ 07006 • (201) 882-8377

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

July 1, 1985

State of New Jersey
Department of Environmental Protection
Division of Waste Management
Hazardous Site Mitigation Administration
CN 028, Trenton, NJ 08625

Attention: Mr. Richard Katz

Re: ECRA Case #85-193
Whippany Paper Board Company
One Ackerman Avenue
Clifton, NJ

Dear Sir:

Our office has been requested by Whippany Paper Board Co. (hereafter WPBC) to assist them in filing and obtaining ECRA approval for the Paper Mill at One Ackerman Avenue, Clifton, New Jersey.

The following submission responds to the checklist for completeness of notice #85193 dated GIS 3/25/85 SES 3/25/85 prepared by R.J. Katz.

1. Checklist Item #4

   Attached please find a copy of the agreement of sale for the Paper Mill at One Ackerman Avenue including the name and address of the parties to the transfer.

2. Checklist Item #9

   Attached please find a scaled site map indicating the locations of known hazardous storage vessels currently on the site.

3. Checklist Item #11

   The following list of storage vessels are those known to exist or have existed on the site.

ABK000455

946010206

Tank #1 - 1000 gallon buried mineral spirits tank
Tank #2 - 1000 gallon buried fuel oil tank
Tank #3 - 1000 gallon buried mineral spirits tank
Tank #4 - 4000 gallon buried hydraulic oil tank
Tank #5 - 160,000 gallon above ground fuel oil tank
Approximately 25-55 gallon drums of mineral spirits and hydraulic oil are to remain onsite for future use.

The locations of all of the storage vessels are indicated on the site map.

On June 10, 1989, WPRC hired General Testing Corporation to witness the excavation, removal of the four (4) buried tanks #1-4 and sample soil within the excavation. A copy of the field report and laboratory analyses is attached. At the time the sample were taken there was no provision made to split the samples with DEP. However, the excavations remain open and additional samples could be taken at any time. Samples will also be taken upon clean-up and all future sampling will be performed to enable split samples to be prepared.

4. Checklist Item #15

The following clean-up program is proposed for the soil as a result of leaking or spilled petroleum hydrocarbons.

One additional soil sample will be taken from each tank location and tested for EP Toxicity, PCB's corrosivity, ignitability and reactivity. A sample taken from the 160,000 gallon fuel tank will also be tested for petroleum hydrocarbons.

Upon receipt of the test results we will seek landfill disposal approval and contract a licensed hauler to excavate and dispose of the contaminated soil.

If only petroleum hydrocarbons exist in the soil we will seek an ID 27 classification and permission for disposal at one of the HMDC sites. Should concentrations of metals or other hazardous compounds be detected in quantities greater than allowable by the HMDC an alternate site will be sought.

During the excavation of the contaminated soil we will determine the extent of cut by sight and smell. Four (4) soil samples shall be taken from within each excavation and tested for petroleum hydrocarbons to verify that the concentration is below five (5) mg/kg. All testing will be performed in accordance with NJDEP criteria and the attached QA/QC program.

Lastly, we will dispose of the four (4) onsite fuel tanks at an appropriate tank facility.

5. Checklist Item #16

All known testing for the site is attached.

If you should have any questions, please do not hesitate to call.

Sincerely,

HAZARDOUS WASTE ENGINEERING CONSULTANT, INC.

Frederick A. Porcello, P.E.
President

FAP/rc

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
32 E. Hanover St., CN 028, Trenton, N.J. 08625

MARWAN M. SADAT, P.E.
DIRECTOR

LINO P. PEREIRA, P.E.
DEPUTY DIRECTOR

23 AUG 1985

Micheal P. Izmirly
Whippany Paper Board Co., Inc.
1 Ackerman Ave.
Clifton, NJ 07011

RE: Whippany Paper Board Co., Inc.
1 Ackerman Ave.
Clifton City, Passaic County
ECRA Case #85193

Dear Mr. Izmirly:

Please be advised that the Initial Notice which was submitted on the subject Industrial Establishment to comply with the provisions of the Environmental Cleanup Responsibility Act (N.J.S.A. 13:1K-6) has been found complete as detailed on the attached checklist.

Please note that a "yes" for Item 14 does not constitute approval of a proposed sampling plan by this office, but only that is has been accepted for a technical review.

You should also be aware that under the act and its associated regulations a Negative Declaration or Cleanup Plan must be provided to the Department sixty (60) days prior to finalization of the proposed action. Since such lead time was not provided in this case, it is entirely possible that our review will not be completed by your intended date. We recommend that you prepare appropriate contingency plans to allow for such an occurrence.

Given our current workload, this project should be assigned to a case manager in 2-3 weeks, at which time contact will be made with you to arrange a site inspection.

Kindly refer to the referenced case number in all future correspondence regarding this case.

Should you have any questions regarding our requirements, please feel free to call Ms. Maria Petix-Kent at (609) 633-7141.

Sincerely,

Anthony J. McMahon, Chief
Bureau of Industrial Site Evaluation

HS38:kc
enclosure

New Jersey Is An Equal Opportunity Employer

ABK000462

946010210

PHC TEST RESULTS SUMMARY

A summary of the PHC test results for soils collected from borings #1-#27 are as follows:

Excavation #	Boring #	Depth of Hole	Depth of Sample	Petroleum Hydrocarbons(mg/kg)
1	1	10.5	6-6.5'	630
1	2	10.5	10-10.5'	190
1	3	10.5	10-10.5'	970
1	4	10.5	10-10.5'	6,600
1	5	10.5	10-10.5'	230
1	6	10.5	8-8.5'	2500
1	7	2.5	10-10.5'	810
2	8	10.5	8-8.5'	150
2	9	10.5	10-10.5'	230
2	10	10.5	10-10.5'	33
2	11	10.5	6-6.5'	100
2	12	10.5	10-10.5'	<13
2	13	10.5	8-8.5'	970
2	14	2.5	10-10.5'	160
2	15	2.5	10-10.5'	<24
3	16	10.5	8-8.5'	<13
3	17	10.5	8-8.5'	12
3	18	10.5	6-6.5'	66
3	19	10.5	8-8.5'	<13
3	20	10.5	6-6.5'	12
3	21	10.5	10-10.5'	<15
3	22	2.5	10-10.5'	1200
3	23	2.5	10-10.5'	160
4	24	—	—	—
4	25	2.5	8-F 5'	2,000
4	26	9.0	8-8.5'	27
4	27	—	—	—

Reported on a dry weight basis.

#146700

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS SITE MITIGATION ADMINISTRATION
CN 028, Trenton, N.J. 08625

MARWAN M. SADAT, P.E.
DIRECTOR

JORGE H. BERKOWITZ, PH.D.
ADMINISTRATOR

21 JAN 1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Michael P. Izmirly
Whippany Paper Board Co., Inc.
1 Ackerman Avenue
Clifton, NJ 07011

RE: Whippany Paper Board Co., Inc.
1 Ackerman Avenue
Clifton, NJ 07011
ECRA Case #85193

Dear Mr. Izmirly:

The purpose of this letter is two-fold. Initially, we have reviewed the Cleanup Plan submitted to BISE on December 16, 1985 and this cleanup Plan is hereby disapproved because the horizontal and vertical extent of the contamination has not been determined. The second function of this letter is to list comments and conditions below which must be addressed in an addendum to the Sampling Plan submitted on August 1, 1985.

1. PHC data indicate that contaminants have migrated to the water table and may be concentrating there. A ground water study to determine the extent of contamination is required. Parameters to be analyzed for in ground water must include VO+15, base neutrals +15 and PHC.

2. Excavation sketches are incorrectly labelled. With resubmittal, include former tank depth, size and contents on sketch, along with preliminary sample results and boring locations.

3. A cement slab was encountered near excavation #4. The purpose of the slab should be determined.

4. Clean fill to be used must be tested for PP+40 and PHC, or an affidavit produced from the supplier that the fill is clean.

5. Chain of custody must list specific dates of sample collection, not just month and year.

6. Results must be reported as "dry weight basis".

7. PHC method listed is for water; specific soil modification must be submitted.

ABK000474

946010213

8. The outside drum storage areas were not addressed in the Cleanup Plan as required by the Sampling Plan approval letter dated November 12, 1985. Priority Pollutants +40 (pp+40) and Petroleum Hydrocarbon (PHC) soil samples must be taken at a depth of six (6) inches beneath the drum storage area.

Whippany Paper Board must submit a revised Sampling Plan with the above information within thirty (30) days from receipt of this letter. No new Cleanup Plan will be considered by BISE until the full horizontal and vertical extent of any contamination is determined.

Any questions should be directed to Mr. Robert Dante at 609-633-7141.

Sincerely,

Anthony J. McMahon, Chief
Bureau of Industrial Site Evaluation

RD/kc
cc: Brian Sogorka

INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

NJDEP Certified Drinking Water/Wastewater Laboratory ID# 14116

LABORATORY ANALYSIS REPORT

REPORT DATE: May 5, 1986

CLIENT: TESTWELL CRAIG

SAMPLE DATE: April 15, 1986

TAKEN BY: G. Mazzarell AT LAB DATE: April 15, 19

WHIPPANY PAPERBOARD PROJECT
ECRA PROJECT/Soil Samples

LAB #	SAMPLE SOURCE	PETROLEUM HYDROCARBON	MOISTURE
54712	JTGB30-1	64	17.2%
54713	JTGB30-2	71	18.2%
54714	JTGB30-3	LT 19	10.6%

QUALITY ASSURANCE DATA:

Lab# 54830 - LT 19
Duplicate - LT 19
Lab# 55010 - 86%(spike recovery)

These results are not on your sample. This is Quality Assurance Data from the group in which your samples were run.

All results are reported in mg/kg(ppm) dry weight basis, unless otherwise stated.

If you should have any questions, please do not hesitate to cal

INDUSTRIAL CORROSION MANAGEMENT, INC.

Richard S. Levine
President

RSL:dlb
LT-Less Than

ABK000519

946010216

INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330

NJDEP Certified Drinking Water/Wastewater
Laboratory ID #14116

LABORATORY ANALYSIS
REPORT

REPORT DATE: May 5, 1986

CLIENT: TESTWELL CRAIG

SAMPLE DATE: April 14, 1986

TAKEN BY: G. Mazzarell AT LAB DATE: April 15, 1

LAB #	SAMPLE SOURCE	PETROLEUM HYDROCARBON	DUPLICATE
54715	MW #2	0.7	0.9
54716	MW #3	LT 0.5	***
54717	MW #4	LT 0.5	***
54718	MW #5	LT 0.5	***

All results are reported in mg/l(ppm).

If you should have any questions, please do not hesitate to call.

INDUSTRIAL CORROSION MANAGEMENT, INC.

Richard S. Levine
President

RSL:dlh
LT=Less Than

ABK000520

946010217

PRIORITY POLLUTANT VOLATILE ORGANIC ANALYSIS

LABORATORY ID #14116

LAB # 54710

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE JTC-B28

GC/MS Method 624 *
Tier II Deliverables

PARAMETER	RESULT ug/kg	METHOD BLANK ug/kg	MDL ug/kg	SPIKE	DUP SPIKE	RPD
Chloromethane	U	U	10	101	110	8.5
Bromomethane	U	U	10	83.6	102	19.8
Vinyl Chloride	U	U	10	110	102	7.6
Chloroethane	U	U	10	106	118	10.7
Methylene Chloride	U	U	10	93.5	106	12.5
1,1-Dichloroethene	U	U	10	102	104	1.94
1,1-Dichloroethane	U	U	10	97.6	102	4.4
Trans-1,2-Dichloroethene	U	U	10	98.4	94.8	37.7
Chloroform	7.0J	U	10	205	104	65.4
1,2-Dichloroethane	U	U	10	114	80.4	34.5
1,1,1-Trichloroethane	U	U	10	102	108	5.7
Carbon Tetrachloride	8.3J	U	10	104	117	11.7
Bromodichloromethane	U	U	10	110	112	1.8
1,2-Dichloropropane	U	U	10	106	112	5.5
Trans-1,3-Dichloropropene	U	U	10	107	100	6.7
Trichloroethene	39	U	10	80	131	48.3
Dibromochloromethane	U	U	10	105	109	3.7
1,1,2-Trichloroethane	U	U	10	104	110	5.6
Benzene	U	U	10	111	112	0.90
cis-1,3-Dichloropropene	U	U	10	107	97.6	9.2
2-Chloroethylvinylether	U	U	10	107	117	8.9
Bromoform	U	U	10	88.8	100	11.8
Tetrachloroethene	U	U	10	100	97.6	2.4
1,1,2,2-Tetrachloroethane	U	U	10	128	86.4	38.8
Toluene	3.27BJ	2.73J	10	115	110	4.4
Chlorobenzene	U	U	10	106	105	1.0
Ethylbenzene	U	U	10	111	107	3.67
Total Xylenes	U	U	10	112	107	4.57

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

INDUSTRIAL CORROSION MANAGEMENT, INC.

PRIORITY POLLUTANT VOLATILE ORGANIC ANALYSIS

LABORATORY ID #14116

LAB # 54711

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE JTGB29

GC/MS Method 624 *
Tier II Deliverables

PARAMETER	RESULT ug/kg	METHOD BLANK ug/kg	MDL ug/kg	SPIKE	DUP SPIKE	RPD
Chloromethane	U	U	10	108	139	2.5
Bromomethane	U	U	10	134	164	20
Vinyl Chloride	U	U	10	170	197	15
Chloroethane	U	U	10	115	139	19
Methylene Chloride	U	U	10	98	127	26
1,1-Dichloroethene	U	U	10	109	113	3.6
1,1-Dichloroethane	U	U	10	106	109	2.8
Trans-1,2-Dichloroethene	U	U	10	127	110	14
Chloroform	15	U	10	216	92	81
1,2-Dichloroethane	U	U	10	199	115	54
1,1,1-Trichloroethane	U	U	10	105	124	17
Carbon Tetrachloride	U	U	10	122	108	12
Bromodichloromethane	U	U	10	127	124	2.4
1,2-Dichloropropane	U	U	10	119	120	1.0
Trans-1,3-Dichloropropene	U	U	10	143	135	5.8
Trichloroethene	180	U	10	0	52	—
Dibromochloromethane	U	U	10	102	100	2.0
1,1,2-Trichloroethane	U	U	10	108	107	1.0
Benzene	U	U	10	118	112	5.2
cis-1,3-Dichloropropene	U	U	10	132	123	7.1
2-Chloroethylvinylether	U	U	10	110	113	2.7
Bromoform	U	U	10	83	85	2.4
Tetrachloroethene	U	U	10	109	94	15
1,1,2,2-Tetrachloroethane	U	U *	10	124	119	4.1
Toluene	U	1.81	10	126	114	10
Chlorobenzene	U	U	10	118	107	9.8
Ethylbenzene	U	U	10	125	104	18
Total Xylenes	U	U	10	129	114	12

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

INDUSTRIAL CORROSION MANAGEMENT, INC.

[redacted]

[illegible] VOLATILE ORGANIC ANALYSIS

LABORATORY ID #14116

LAB # 34715

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW - 2

GC/MS Method 624*
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
Chloromethane	U	U	10
Bromomethane	U	U	10
Vinyl Chloride	U	U	10
Chloroethane	U	U	10
Methylene Chloride	9.1B	9.7J	10
1,1-Dichloroethene	U	U	10
1,1-Dichloroethane	U	U	10
Trans-1,2-Dichloroethene	U	U	10
Chloroform	8.2B	9.4J	10
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	10
Carbon Tetrachloride	U	U	10
Bromodichloromethane	U	U	10
1,2-Dichloropropane	U	U	10
Trans-1,3-Dichloropropene	U	U	10
Trichloroethene	U	U	10
Dibromochloromethane	U	U	10
1,1,2-Trichloroethane	U	U	10
Benzene	U	U	10
cis-1,3-Dichloropropene	U	U	10
2-Chloroethylvinylether	U	U	10
Bromoform	U	U	10
Tetrachloroethene	U	U	10
1,1,2,2-Tetrachloroethane	U	U	10
Toluene	3.0J	U	10
Chlorobenzene	U	U	10
Ethylbenzene	U	U	10
Total Xylenes	U	U	10

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

INDUSTRIAL CORROSION MANAGEMENT, INC.

ABK000523

946010220

PRIORITY POLLUTANT BASE/NEUTRAL ORGANIC ANALYSIS

LABORATORY ID #14110

LAB # 54715

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-2

GC/MS + 15 PEAKS Method 625
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
acenaphthene	U	U	10
acenaphthylene	U	U	10
anthracene	U	U	10
benzidine	U	U	10
benzo(a)anthracene	U	U	10
benzo(a)pyrene	U	U	10
benzo(b)fluoranthene	U	U	10
benzo(ghi)perylene	U	U	10
benzo(k)fluoranthene	U	U	10
bis(2-chloroethoxy)methane	U	U	10
bis(2-chloroethyl)ether	U	U	10
bis(2-chloroisopropyl)ether	U	U	10
bis(2-ethylhexyl)phthalate	U	U	10
4-bromophenyl phenyl ether	U	U	10
butylbenzyl phthalate	U	U	10
2-chloronaphthalene	U	U	10
4-chlorophenyl phenyl ether	U	U	10
chrysene	U	U	10
dibenzo(a,h)anthracene	U	U	10
1,2-dichlorobenzene	U	U	10
1,3-dichlorobenzene	U	U	10
1,4-dichlorobenzene	U	U	10
3,3-dichlorobenzidine	U	U	10
diethyl phthalate	U	U	10
dimethyl phthalate	U	U	10
di-n-butyl phthalate	U	2.2J	10
2,4-dinitrotoluene	U	U	10
2,6-dinitrotoluene	U	U	10
di-n-octyl phthalate	U	U	10
1,2-diphenylhydrazine(as azobenzene)	U	U	10
fluoranthene	U	U	10
fluorene	U	U	10
hexachlorobenzene	U	U	10
hexachlorobutadiene	U	U	10
hexachlorocyclopentadiene	U	U	10
hexachloroethane	U	U	10
indeno(1,2,3-cd)pyrene	U	U	10
isophorone	U	U	10
naphthalene	U	U	10
nitrobenzene	U	U	10
N-nitrosodimethylamine	U	U	10
N-nitrosodi-n-propylamine	U	U	10
N-nitrosodiphenylamine	U	U	10
phenanthrene	U	U	10
pyrene	U	U	10
1,2,4-trichlorobenzene	U	U	10

INDUSTRIAL CORROSION MANAGEMENT, INC.

LT-15

ABK000524

946010221

PRIORITY POLLUTANT ACID FRACTI ORGANIC ANALYSIS

LABORATORY ID #14116

LAB # 54715

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-2

GC/MS + 10 Peaks Method 625
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
2-chlorophenol	U	U	10
2-nitrophenol	U	U	10
phenol	U	U	10
2,4-dimethylphenol	U	U	10
2,4-dichlorophenol	U	U	10
2,4,6-trichlorophenol	U	U	10
pentachlorophenol	U	U	10
2,4-dinitrophenol	U	U	10
4,6-dinitro-o-cresol	U	U	10
4-nitrophenol	U	U	10
4-chloro-3 methyl phenol	U	U	10

INDUSTRIAL CORROSION MANAGMENT, INC.

LT-17

ABK000525

946010222

WATER POLLUTANT VOLATILE ORGANIC ANALYSIS

LABORATORY ID #14116

LAB # 54716

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-3

GC/MS Method 624*
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
Chloromethane	U	U	10
Bromomethane	U	U	10
Vinyl Chloride	U	U	10
Chloroethane	U	U	10
Methylene Chloride	8.7B	9.7J	10
1,1-Dichloroethene	U	U	10
1,1-Dichloroethane	U	U	10
Trans-1,2-Dichloroethene	U	U	10
Chloroform	10B	9.6J	10
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	10
Carbon Tetrachloride	U	U	10
Bromodichloromethane	U	U	10
1,2-Dichloropropane	U	U	10
Trans-1,3-Dichloropropene	U	U	10
Trichloroethene	U	U	10
Dibromochloromethane	U	U	10
1,1,2-Trichloroethane	U	U	10
Benzene	U	U	10
cis-1,3-Dichloropropene	U	U	10
2-Chloroethylvinylether	U	U	10
Bromoform	U	U	10
Tetrachloroethene	U	U	10
1,1,2,2-Tetrachloroethane	U	U	10
Toluene	U	U	10
Chlorobenzene	U	U	10
Ethylbenzene	U	U	10
Total Xylenes	U	U	10

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

INDUSTRIAL CORROSION MANAGEMENT, INC.

LT-21

ABK000526

946010223

[redacted]

ACID/BASE EXTRACTANT BASE/NEUTRAL ORGANIC ANALYSIS

LABORATORY ID #1[illegible]6

LAB # 54716

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-3

GC/MS + 15 PEAKS Method 625
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
acenaphthene	U	U	10
acenaphthylene	U	U	10
anthracene	U	U	10
benzidine	U	U	10
benzo(a)anthracene	U	U	10
benzo(a)pyrene	U	U	10
benzo(b)fluoranthene	U	U	10
benzo(ghi)perylene	U	U	10
benzo(k)fluoranthene	U	U	10
bis(2-chloroethoxy)methane	U	U	10
bis(2-chloroethyl)ether	U	U	10
bis(2-chloroisopropyl)ether	U	U	10
bis(2-ethylhexyl)phthalate	U	U	10
4-bromophenyl phenyl ether	U	U	10
butylbenzyl phthalate	U	U	10
2-chloronaphthalene	U	U	10
4-chlorophenyl phenyl ether	U	U	10
chrysene	U	U	10
dibenzo(a,h)anthracene	U	U	10
1,2-dichlorobenzene	U	U	10
1,3-dichlorobenzene	U	U	10
1,4-dichlorobenzene	U	U	10
3,3-dichlorobenzidine	U	U	10
diethyl phthalate	U	U	10
dimethyl phthalate	U	U	10
di-n-butyl phthalate	16.5B	2.2J	10
2,4-dinitrotoluene	U	U	10
2,6-dinitrotoluene	U	U	10
di-n-octyl phthalate	U	U	10
1,2-diphenylhydrazine(as azobenzene)	U	U	10
fluoranthene	U	U	10
fluorene	U	U	10
hexachlorobenzene	U	U	10
hexachlorobutadiene	U	U	10
hexachlorocyclopentadiene	U	U	10
hexachloroethane	U	U	10
indeno(1,2,3-cd)pyrene	U	U	10
isophorone	U	U	10
naphthalene	U	U	10
nitrobenzene	U	U	10
N-nitrosodimethylamine	U	U	10
N-nitrosodi-n-propylamine	U	U	10
N-nitrosodiphenylamine	U	U	10
phenanthrene	U	U	10
pyrene	U	U	10
1,2,4-trichlorobenzene	U	U	10

INDUSTRIAL CORROSION MANAGEMENT, INC.

LT-24

ABK000527

946010224

ORITY POLLUTANT VOLATILE ORGAN ANALYSIS

LABORATORY ID #14116

LAB # 54717

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-4

GC/MS Method 624*
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
Chloromethane	U	U	10
Bromomethane	U	U	10
Vinyl Chloride	U	U	10
Chloroethane	U	U	10
Methylene Chloride	9.8B	9.7J	10
1,1-Dichloroethene	U	U	10
1,1-Dichloroethane	U	U	10
Trans-1,2-Dichloroethene	U	U	10
Chloroform	8.7B	9.6J	10
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	10
Carbon Tetrachloride	U	U	10
Bromodichloromethane	U	U	10
1,2-Dichloropropane	U	U	10
Trans-1,3-Dichloropropene	U	U	10
Trichloroethene	U	U	10
Dibromochloromethane	U	U	10
1,1,2-Trichloroethane	U	U	10
Benzene	U	U	10
cis-1,3-Dichloropropene	U	U	10
2-Chloroethylvinylether	U	U	10
Bromoform	U	U	10
Tetrachloroethene	U	U	10
1,1,2,2-Tetrachloroethane	U	U	10
Toluene	U	U	10
Chlorobenzene	U	U	10
Ethylbenzene	U	U	10
Total Xylenes	U	U	10

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

INDUSTRIAL CORROSION MANAGEMENT, INC.

LT-29

ABK000528

946010225

PRIORITY POLLUTANT BASE/NEUTRAL ORGANIC ANALYSIS

LABORATORY ID 94116

LAB # 54717

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-4

GC/MS + 15 PEAKS Method 625
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
acenaphthene	U	U	10
acenaphthylene	U	U	10
anthracene	U	U	10
benzidine	U	U	10
benzo(a)anthracene	U	U	10
benzo(a)pyrene	U	U	10
benzo(b)fluoranthene	U	U	10
benzo(ghi)perylene	U	U	10
benzo(k)fluoranthene	U	U	10
bis(2-chloroethoxy)methane	U	U	10
bis(2-chloroethyl)ether	U	U	10
bis(2-chloroisopropyl)ether	U	U	10
bis(2-ethylhexyl)phthalate	U	U	10
4-bromophenyl phenyl ether	U	U	10
butylbenzyl phthalate	U	U	10
2-chloronaphthalene	U	U	10
4-chlorophenyl phenyl ether	U	U	10
chrysene	U	U	10
dibenzo(a,h)anthracene	U	U	10
1,2-dichlorobenzene	U	U	10
1,3-dichlorobenzene	U	U	10
1,4-dichlorobenzene	U	U	10
3,3-dichlorobenzidine	U	U	10
diethyl phthalate	U	U	10
dimethyl phthalate	U	U	10
di-n-butyl phthalate	1058	2.21	10
2,4-dinitrotoluene	U	U	10
2,6-dinitrotoluene	U	U	10
di-n-octyl phthalate	U	U	10
1,2-diphenylhydrazine(as azobenzene)	U	U	10
fluoranthene	U	U	10
fluorene	U	U	10
hexachlorobenzene	U	U	10
hexachlorobutadiene	U	U	10
hexachlorocyclopentadiene	U	U	10
hexachloroethane	U	U	10
indeno(1,2,3-cd)pyrene	U	U	10
isophorone	U	U	10
naphthalene	U	U	10
nitrobenzene	U	U	10
N-nitrosodimethylamine	U	U	10
N-nitrosodi-n-propylamine	U	U	10
N-nitrosodiphenylamine	U	U	10
phenanthrene	U	U	10
pyrene	U	U	10
1,2,4-trichlorobenzene	U	U	10

INDUSTRIAL CORROSION MANAGEMENT, INC.

LT-32

ABK000529

946010226

..ORITY POLLUTANT VOLATILE ORGAN. ANALYSIS

LABORATORY ID #14116

LAB # 54718

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE MW-5

GC/MS Method 624*
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l
Chloromethane	U	U	10
Bromomethane	U	U	10
Vinyl Chloride	U	U	10
Chloroethane	U	U	10
Methylene Chloride	24B	9.7J	10
1,1-Dichloroethene	U	U	10
1,1-Dichloroethane	U	U	10
Trans-1,2-Dichloroethene	U	U	10
Chloroform	14B	9.4J	10
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	10
Carbon Tetrachloride	U	U	10
Bromodichloromethane	U	U	10
1,2-Dichloropropane	U	U	10
Trans-1,3-Dichloropropene	U	U	10
Trichloroethene	U	U	10
Dibromochloromethane	U	U	10
1,1,2-Trichloroethane	U	U	10
Benzene	U	U	10
cis-1,3-Dichloropropene	U	U	10
2-Chloroethylvinylether	U	U	10
Bromoform	U	U	10
Tetrachloroethene	U	U	10
1,1,2,2-Tetrachloroethane	U	U	10
Toluene	U	U	10
Chlorobenzene	U	U	10
Ethylbenzene	U	U	10
Total Xylenes	U	U	10

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

INDUSTRIAL CORROSION MANAGEMENT, INC.

ABK000530

946010227

PRIORITY POLLUTANT VOLATILE ORGANIC ANALYSIS

LABORATORY ID #14116

LAB # 54639

CLIENT: TEST WELL CRAIG - Whippany Paperboard

SAMPLE SOURCE QUALITY ASSURANCE DATA

GC/MS Method 624 *
Tier II Deliverables

PARAMETER	RESULT ug/l	METHOD BLANK ug/l	MDL ug/l	SPIKE	DUP SPIKE	RPD
Chloromethane	U	U	10	77	64	18
Bromomethane	U	U	10	114	106	7.3
Vinyl Chloride	U	U	10	91	86	5.7
Chloroethane	U	U	10	99	97	2.0
Methylene Chloride	8.9B	9.[illegible]	.0	101	103	2.0
1,1-Dichloroethene	U	U	10	99	99	0
1,1-Dichloroethane	U	U	10	95	97	2.1
Trans-1,2-Dichloroethene	U	U	10	97	98	1.0
Chloroform	9.0B	9.4J	10	105	106	1.0
1,2-Dichloroethane	U	U	10	97	99	2.0
1,1,1-Trichloroethane	U	U	10	109	110	1.0
Carbon Tetrachloride	U	U	10	105	102	2.9
Bromodichloromethane	U	U	10	100	100	0
1,2-Dichloropropane	U	U	10	98	101	3.0
Trans-1,3-Dichloropropene	U	U	10	98	98	0
Trichloroethene	U	U	10	106	105	1.0
Dibromochloromethane	U	U	10	102	107	4.8
1,1,2-Trichloroethane	U	U	10	104	105	1.0
Benzene	U	U	10	103	103	0
cis-1,3-Dichloropropene	U	U	10	102	101	1.0
2-Chloroethylvinylether	U	U	10	104	108	3.8
Bromoform	U	U	10	103	107	3.8
Tetrachloroethene	U	U	10	103	103	0
1,1,2,2-Tetrachloroethane	U	U	10	107	112	4.6
Toluene	350	U	10	88	79	11
Chlorobenzene	U	U	10	101	103	2.0
Ethylbenzene	34	U	10	97	100	3.1
Total Xylenes	31	U	10	107	102	0

*Dichlorobenzenes not analyzed under this method. Analyzed by GC/MS Method 625.

These results are not on your samples. This is Quality Assurance Data from the group in which your samples were run.

INDUSTRIAL CORROSION MANAGEMENT, INC.

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
CN 028
Trenton, N.J. 08625
609 · 292 · 1250

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

26 AUG 1986

Michel P. Izmirly
Whippany Paper Board Co., Inc.
1 Ackerman Ave.
Clifton, NJ 07011

RE: Industrial Establishment: Whippany Paper Board Co., Inc.
Location: 1 Ackerman Avenue, Clifton City, Passaic County
Block: 4-15 Lot: 1
Transaction: Cessation of Operations and Sale of Property
Seller(s): Whippany Paper Board Co., Inc.
Buyer(s): V. Ponte & Sons
Cleanup Plan Dated: May 30, 1986
ECRA Case #85193

Dear Mr. Izmirly:

We have reviewed the sampling results and Cleanup Plan submitted to us on May 30, 1986. The results of sampling do not define the exact horizontal and vertical extent of contamination at the Whippany Paper Board Co., Inc. site. Since any Cleanup Plan is based upon the extent of contamination, this Cleanup Plan is hereby disapproved. Whippany Paper Board Co., Inc. shall perform the following actions and submit this information to BISE within ninety (90) days of receipt of this letter.

1. Fuel Oil Tank and Drum Storage Area

The drum storage area was not tested for priority pollutants +40 (PP+40), and petroleum hydrocarbons (PHC) as required in the letter dated November 12, 1985 and January 21, 1986. Also volatile organic soil analysis identified soil contamination at the above ground 160,000 gallon No. 6 fuel oil tank and at the drum storage area. Whippany Paper Board Co., Inc. shall perform soil sampling to include the above parameters and must also install ground water monitoring wells at each location as indicated in the March 7, 1986 Sampling Plan approval letter.

2. Transformer Area PCBs

Whippany Paper Board Co., Inc. has not complied with item 15 of the March 7, 1986 letter. Documentation was not provided as to whether the two on-site transformers ever contained polychlorinated biphenols (PCBs), nor were the soils sampled and analyzed for PCBs as the required alternative to this documentation. Whippany Paper Board, Inc. shall submit the required information.

3. Ground Water Flow Based on Monitoring Well Locations

This site is bordered by the Passaic River to the east and the higher elevation Dundee Canal to the west. Five monitoring wells were installed. On the east side of the site monitoring well numbers 2 to 5 are located along the bank of the Passaic River and monitoring well number 1 borders the Dundee Canal on the western perimeter of the site. The measured static water level from monitoring well number 1 is necessary to determine ground water flow direction by triangulation with the other on-site monitoring wells. Triangulation between monitoring well numbers 2 to 5 is not possible since they are oriented in an approximate straight line, located along the bank of the Passaic River. Monitoring well number 1 is screened entirely in the unsaturated zone (monitoring well 1 is dry); therefore, triangulation to define ground water flow is not possible. Monitoring well number 1 must be sealed and a replacement well must be constructed with 15 feet of screen: screened from 5 feet above to 10 feet below the water table. The replacement well must be located immediately adjacent to the southeast side of the tank. The well locations were to be field determined with a staff member of the New Jersey Geological Survey (NJGS). Well locations were not finalized with the NJGS. An initial inspection was made, but no well locations were finalized. In the future, all monitoring well locations must be determined in consultation with the assigned NJGS geologist and the NJGS geologist must be notified 10 working days prior to the future well installations.

4. Ground Water Sampling

Whippany Paper Board Co., Inc. was to provide an analysis of the mineral spirits and hydraulic oils used so that additional parameters could be added to the required ground water analysis. This was not provided, as required by comment #7 of the March 7, 1986 letter. This information still must be provided and future analyzes must include these parameters. A second round of ground water sampling and analysis must be done; it must include these parameters and the priority pollutants plus 40, less the pesticide fraction and metals. Monitoring well data is not acceptable for volatile organic (VO) fraction due to the violation of holding times. The required holding time for VO's is 7 days and the actual time was 28 days. Reanalysis with the proper holding times is required. The base neutral-acid data for (NA?) is not acceptable due to low surrogate recovery data. Ground water analysis of water samples collected from monitoring well numbers 1, 4, and 5 has identified contamination in excess of interim corrective action criteria. Whippany Paper Board Co., Inc. must fully define the vertical and horizontal extent of ground water contamination at these areas as well as future identified areas. The vertical gradient may be significant due to the sheet pilings at the river bank.

5. Tank Excavation Sampling

Whippany Paper Broad Co., Inc. proposes to take one post excavation sample from each sidewall. If side walls are in excess of 30' an additional sample is required.

Whippany Paper Board still has not addressed item 14 of the March 7, 1986 letter regarding the full delineation of the horizontal extent of soil contamination. Whippany Paper Board Co., Inc. shall comply with item 14 of the March 7, 1986 letter.

No new Cleanup Plan will be considered by BISE until the full horizontal and vertical extent of any contamination is determined. Any questions should be directed to Mr. Robert Dante, case manager at (609) 633-7141.

Very truly yours,

Joseph R. Fallon, Assistant Chief
Bureau of Industrial Site Evaluation

BS73:dr
cc: Brian Sogorka, BEERA
Ted Hayes, DWR
Assemblyman Gerald Zecker

Application
Number _____

APPLICATION

The purpose of this application is to solicit an Administrative Consent Order from the New Jersey Department of Environmental Protection. The ACO will allow the transaction or closing to occur. In return, the ordered party agrees to fully comply with the ACO time requirements in accordance with the schedules agreed to in the ACO.

Please Type or Print

Date of Application October 20, 1986

A. Has an Initial Notice been filed for this transaction? Check One:

Yes _____ if so Case Number _____

No X

If No, attach a completed ECRA 1, General Information Submission (N.J.A.C. 7:1-3.7) to this application for each facility to be included in the ACO along with appropriate fees pursuant to N.J.A.C. 7:1-6.

B. The ordered party in this ACO will be the following:

Whippany Paper Board Co., Inc.

Street Address One Ackerman Avenue

City or Town Clifton State NJ Zip Code 07011

State of Incorporation, if applicable New Jersey

C. Facility(ies) in New Jersey: (Attach additional sheets if there are more than one)

Name See Annex 1

Street Address _____

City or Town _____

Municipality _____ County _____

Block(s) _____ Lot(s) _____

D. Current owner, if different from "B" above, of the property for which this ACO is requested:

See "B" above.

Street Address _____

City or Town _____ State _____ Zip Code _____

State of Incorporation, if applicable _____

ABK000535

946010234

E. Current operator(s) (Lessee), if different from "B" or "D" above, of the Industrial Establishment for which this ACO is requested, if applicable: (Additional sheets if more than one)

Name See "B" above. No Tenants

Address

City or Town State Zip Code

State of Incorporation, if applicable

F. Description of Industrial Establishment Operations (be specific) include Standard Industrial Classification Number (SIC)

To the best of applicant's knowledge, all facilities are presently dormant and have been since approximately 1980. Prior to 1980, the facilities were used in connection with a business that involved primarily the manufacture of paper board and paper products. SIC No. 26.

G. Site Boundaries for which the Lessee has responsibility (Attach Maps If Necessary):

N/A

H. Individual Submitting this request:

Name SPX Inc. ("SPX")

Affiliation Tender Offeror

Address c/o River Terminal Development Company, Bldg 4

City or Town South Kearny State NJ Zip Code 07032

Phone Number (201) 589-0863

Who do you represent? Self

I. Describe, in detail, the transaction for which this Administrative Consent Order is requested (closing, selling, stock purchase, etc.). Attach additional sheets, if necessary.

Contemplated tender offer by SPX for all the stock of Whippany Paper Board Co., Inc. The consummation of the purchase under the tender offer would be contingent upon, among other things, the acquisition of at least 67% of the stock.

ABK000536

946010235

J. Attach any agreement(s), termination notices, or letter(s) of intent for this sale, stock purchase, leasehold termination, or closing, if not previously submitted as part of the Initial Notice.

None in existence at present time.

Date the agreement or Letter of Intent was signed _____

Date for closing the transaction _____

Date for cessation of operations _____

Is the closing of the transaction dependent on compliance with ECRA?

Yes __X__ No _____

K. State your reasons, in detail, why the Department should enter into this ACO. (Be specific. Much of the Department's determination will rest on this justification) (Attach additional sheets, if necessary):

Due to the time necessary to generate an acceptable clean-up plan, the Tender Offer could not be accomplished in a commercially viable manner.

L. Purchaser or new tenant (Attach additional sheets, if necessary):

Name Tender Offer N/A

Address _____

City or Town _____ State _____ Zip Code _____

State of Incorporation _____

M. Partnerships. If the owner, operator, and/or ordered party is a partnership, give type of partnership (limited/general) and state where registered. Attach a list of the names and addresses of all current general partners.

N/A

ABK000537

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N. Has financing been secured for this transaction? Transaction will be self-financed. If yes, provide documentation.

O. Name of institution providing financing.

Name N/A

Address _____

City or Town _____ State _____ Zip Code _____

Contact _____ Phone Number _____

P. Is the Economic Development Authority (EDA) providing financing for this transaction? No

Date on which the EDA gave final Board approval _____

EDA Application Number _____

Last day for closing title to obtain EDA financing _____

Provide documentation of final EDA Board approval.

Q. Name of institution or agency which will be providing financial assurance (see N.J.A.C. 7:1-3.13), if known at this time:

Name Not known at this time.

Address _____

City or Town _____ State _____ Zip Code _____

Contact _____ Phone Number _____

R. Has there ever been a spill or unpermitted discharge of any hazardous substance or waste on or from this facility(ies)?

Yes _____ No _____ Do Not Know X

If Yes, explain

_____

_____

_____

_____

_____

ABK000538

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S. Identify any known environmental contamination problems on the site:

See Annex 2

T. Source(s) of Environmental Concern

Check all applicable categories concerning the Industrial Establishment:

Drum Storage	___	Waste Pile	___	Seepage Pit	___	Tank Farm	___
Discharge	___	Monitor Well	X	Dumpster	___	Transformer	X
Potable Well	___	Floor Drain	___	Bld. Decontam.	___	other	___
Roof Drain	___	Septic System	___	Asbestos	X	UGST	X
Lagoon	X	Spill	___				

Other (Explain) See Annex 2

U. Certification:

I, Frank Kobola, as Vice President of HPN Inc., hereby certify that the information furnished on this application (and any attachments) is true. I am fully aware that any person who knowingly gives or causes to be given any false information or who fails to comply with the provisions of ECRA shall be liable to a penalty of not more than $25,000 for each offense. Furthermore, I am fully aware that any authorized officer or management official who knowingly directs or authorizes the violation of any provisions of ECRA shall be personally liable for penalties of not more than $25,000 for each offense. Failure to comply with the provisions of ECRA may also be cause for the possible voiding of the transaction.

Signature of Affiant

FRANK KOBOLA

Date October 20, 1986

Sworn to and Subscribed Before Me
on this 20
Date of October of 1986

Notary STEPHANIE CHOWANSKY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Oct. 15, 1989

ABK000539

946010238

ANNEX 1

THREE FACILITIES
All owned and operated by
Whippany Paper Board Co., Inc.

1. Sanitary Landfill
Parsippany Road
Hanover Township, New Jersey
- See Survey I attached (outlined in red)
- Lot 11 in Block 8901

2. 10 North Jefferson Road at
Eden Mill Road
Hanover Township, New Jersey

Lot	in	Block
2		3801
1		3802
1 & 23		4101
8		4301

approximately 80.88 acres
- see Survey II attached

3. 1 Ackerman Avenue
Clifton, New Jersey 07011
Lot 1 in Block 4-15

ANNEX 2

To the best of applicant's knowledge:

1. Eden Mill Road Facility - There is an application pending for a permit to be issued by the NJDEP (Division of Water Resources) relating to the closure of sludge lagoons. NJDEP contact: Ron Carper.

There are transformers present on the site that are marked as containing PCBs.

There exists one 10,000 gallon underground tank which is empty but previously contained #2 fuel oil.

In at least one of the buildings there is asbestos insulation which has deteriorated substantially.

2. Landfill Facility - There is outstanding a Final NJPDES Permit (see attached copy) relating to the monitoring of ground water.

3. Clifton Facility - Presently the subject of ECRA Case No. 85-193. Applicant: Whippany Paper Board Co., Inc. Environmental Consultant: Fred Porcello of Hazardous Waste Environmental Consultants. NJDEP contact: Robert Dante.

2218H

Survey #1, Survey #2 and NJPDES Permit No. NJ0056979 attached to original letter only.

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
401 East State St.
CN 028
Trenton, N.J. 08625
609 - 633 - 1408

IN THE MATTER OF
NPN, INC. and
WHIPPANY PAPER BOARD CO., INC.
ECRA CASE # 85193

ADMINISTRATIVE
CONSENT ORDER

The following FINDINGS are made and ORDER is issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "NJDEP") by N.J.S.A. 13:1D-1 et seq. and the Environmental Cleanup Responsibility Act, N.J.S.A. 13:1K-6 et seq., and duly delegated to the Assistant Director for Enforcement and Field Operations within the Division of Hazardous Waste Management pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. The Environmental Cleanup Responsibility Act, N.J.S.A. 13:1K-6 et seq. ("ECRA" or "the Act"), was signed into New Jersey State Law by Governor Thomas H. Kean on September 2, 1983, and took effect on December 31, 1983.

2. ECRA required the NJDEP to adopt rules and regulations to implement the Act. On March 6, 1984, NJDEP adopted the Interim ECRA Regulations, N.J.A.C. 7:1-3 ("Regulations") in compliance with the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq., upon acceptance for filing by the Office of Administrative Law pursuant to N.J.A.C. 1:30-4.4(d).

3. ECRA requires that the owner or operator of an industrial establishment planning to sell or close or transfer operations (a) notify the NJDEP in writing within five (5) days of the execution of an agreement of sale or public release of its decision to close pursuant to N.J.A.C. 7:1-3.7, (b) submit within (60) days prior to transfer of title or closing operations, a Negative Declaration or Cleanup Plan to the NJDEP for approval, and (c) obtain, upon approval of any necessary Cleanup Plan by the NJDEP, a surety bond or other financial security approved by the NJDEP guaranteeing performance of the Cleanup Plan in an amount equal to the cost estimate for the approved Cleanup Plan.

4. N.J.S.A. 13:1K-13 provides that failure to submit a Negative Declaration or Cleanup Plan pursuant to ECRA is grounds for voiding the sale by NJDEP. Any person who knowingly gives or causes to be given any false information or who fails to comply with the provisions of ECRA is liable for a penalty of not more than $25,000.00 for each occurrence, and each day of a violation of a continuing nature constitutes an additional and separate offense. Furthermore, any officer or management official of an Industrial Establishment who knowingly directs or authorizes the violation of any provisions of the Act shall be personally liable for the $25,000.00 penalties for each violation described above.

5. On October 30, 1986, NPN, Inc. submitted to NJDEP an application for an Administrative Consent Order ("ACO"). The ACO application is incorporated herein by reference and includes the following information:

A. Industrial Establishment(s)

ECRA Case #85193 SIC #: 2388
Facility Name: Whippany Paper Board Co., Inc.
"Clifton Facility"
Facility Location: 1 Ackerman Avenue
Clifton City, Passaic County
Block: 4-15 Lot: 1

Initial Notice Status: Complete and Assigned

Owner: Whippany Paper Board Co., Inc.
Operator: Same

Other Industrial Establishments: See Attachment A

B. Transaction:

Seller: Whippany Paper Board Co., Inc.
Buyer: NPN, Inc.

Description: NPN, Inc. has made a Tender offer to obtain all of the stock of Whippany Paper Board Co., Inc.

6. The Transaction described in 5.B above is the sale, transfer and/or closing of an Industrial Establishment as defined by ECRA and the Regulations. NJDEP and the Ordered Party(ies) expressly agree that the Transaction is subject to ECRA and the Regulations. The Ordered Party(ies) has requested that NJDEP prepare an ACO which when effective, will allow the Transaction to be consummated prior to the completion of all administrative requirements.

7. In appropriate cases, NJDEP may allow transactions subject to ECRA to proceed prior to completing the standard ECRA administrative process by execution of an ACO. The ACO specifies a time schedule for completion of ECRA requirements by the industrial establishment and provides for financial assurance in a form and amount acceptable to NJDEP prior to consummation of any transactions subject to ECRA. Failure to fully comply with all the terms and conditions of the ACO shall subject the Ordered Party(ies) to the full range of penalties and remedies prescribed in the Act, the Regulations, and the ACO.

ORDER

NOW, THEREFORE, IT IS ORDERED AND AGREED THAT:

8. NJDEP and the Ordered Party(ies) expressly agree that the terms and conditions of this ACO, including the financial assurance requirements, set forth in Paragraphs 9, 10, and 11 below, shall apply separately to each of the Ordered Party(ies) facilities. Furthermore, NJDEP and the Ordered Party(ies) agree to administer and complete all applicable ECRA program requirements, including exercise of the financial assurance requirements and any other remedial measures pursuant to the ACO and ECRA, separately for each subject Industrial Establishment.

9. ECRA Program Requirements for the the Ordered Party(ies) Facilities

   A. The Ordered Party(ies) shall complete the Initial Notice (commonly referred to as ECRA I and ECRA II) for each subject Industrial Establishment required by N.J.A.C. 7:1-3.7 within thirty (30) days from the effective date of this ACO.

   B. Within ninety (90) days from receipt of NJDEP's written approval of the Sampling Plan(s) prepared for the the Ordered Party(ies) facilities pursuant to N.J.A.C. 7:1-3.7(d)14 and N.J.A.C. 7:1-3.9, the Ordered Party(ies) shall initiate, complete, and submit to NJDEP the results from any NJDEP-approved Sampling Plan(s) including, but not limited to, complete delineation of environmental contamination on-site, and any off-site environmental contamination resulting from discharges of hazardous wastes or substances on or from the Industrial Establishment which is subject of the approved Sampling Plan(s). NJDEP and the Ordered Party(ies) recognize that additional sampling may be necessary during the various stages of the implementation of this ACO and ECRA, including during the implementation of a Cleanup Plan(s), at any of the subject Industrial Establishments to delineate fully the nature and extent of environmental contamination on-site, and any off-site environmental contamination resulting from discharges of hazardous substances or wastes on or from any subject Industrial Establishment. Therefore, the Ordered Party(ies) agrees to submit any additional sampling plans for NJDEP review and approval required by NJDEP in writing during the various stages of the implementation of this ACO and ECRA, including during the implementation of a Cleanup Plan(s), to further delineate the nature and extent of environmental contamination on or from any of the subject Industrial Establishments. NJDEP and the Ordered Party(ies) mutually agree that the Ordered Party(ies) shall submit to NJDEP any required additional sampling plans for review and

approval within thirty (30) days of the receipt of said written request. Within ninety (90) days from receipt of NJDEP's written approval of any additional Sampling Plans(s), shall initiate, complete and submit to NJDEP the results from any additional NJDEP-approved Sampling Plan(s) required pursuant to this paragraph.

C. NJDEP shall notify the Ordered Party(ies) in writing requiring the Ordered Party(ies) to submit either a Negative Declaration(s) or Cleanup Plan(s) when sampling results have satisified NJDEP's requirement to delineate fully the nature and extent of environmental contamination on or from any subject Industrial Establishment. The Ordered Party(ies) shall submit a Negative Declaration(s) or Cleanup Plan(s) within sixty (60) days from receipt of a written demand from NJDEP for a Negative Declaration(s) or Cleanup Plan(s). If a Cleanup Plan(s) is required, the Cleanup Plan(s) shall address remediation of any contamination identified on or from any subject Industrial Establishment. Any Negative Declaration(s) or Cleanup Plan(s) submitted shall conform to N.J.A.C. 7:1-3.

D. The Ordered Party(ies) shall implement any NJDEP-approved Cleanup Plan(s) in accordance with the approved time schedule or defer implementation of all or part of the Cleanup Plan(s) subject to NJDEP approval pursuant to N.J.A.C. 7:1-3.14.

E. Should NJDEP determine that any submittal made under Paragraph 9 of this ACO is inadequate or incomplete, then NJDEP shall provide the Ordered Party(ies) with written notification of the deficiency(ies), and the Ordered Party(ies) shall revise and resubmit the required information within a reasonable period of time not to exceed thirty (30) days from receipt of such notification.

F. All submissions required pursuant to Paragraph 9 or any other provision of this ACO shall be accompanied by all appropriate fees required pursuant to the Fee Schedule for ECRA, N.J.A.C. 7:1-4.

10. Conditions for Financial Assurance

A. The Ordered Party(ies) shall obtain and provide to NJDEP separate financial assurances in the form of a surety bond or letter of credit for each subject Industrial Establishment in the amounts specified in Paragraph 16. The financial assurance must conform with the requirements of N.J.S.A. 13:1K-9(b)3, N.J.A.C. 7:1-3.10, N.J.A.C. 7:1-3.13, and this ACO. These financial assurances shall be submitted to NJDEP along with a fully executed ACO pursuant to Paragraph 16 of this ACO.

B. The Ordered Party(ies) shall establish and submit to NJDEP for each subject Industrial Establishment separate standby trust funds within seven (7) days from the effective date of this ACO. The financial institution(s) which issues the financial assurance(s) shall agree to promptly and directly deposit all amounts up to the total value of the financial assurance(s) into the standby trust fund(s) upon demand by NJDEP.

C. Upon NJDEP approval of a Cleanup Plan(s) for any subject Industrial Establishment(s), The Ordered Party(ies) shall amend the amount of the financial assurance(s), described in C.A above for any or all of the Ordered Party(ies) facilities as the case may be, to equal the estimated cost of implementation of the approved Cleanup Plan(s), or shall provide such other financial assurance(s) as may be approved by NJDEP in an amount(s) equal to the estimated cost of implementation of the approved Cleanup Plan(s).

D. In the event that NJDEP determines that the Ordered Party(ies) has failed to perform any of its obligations under this ACO or ECRA at any of the Ordered Party(ies) facilities, NJDEP may draw on the financial assurance(s) for that subject Industrial Establishment(s); provided, however, that before any such demand is made, NJDEP shall notify the Ordered Party(ies) in writing of the obligation(s) with which it has not complied, and the Ordered Party(ies) shall have reasonable time, not to exceed fourteen (14) days, to perform such obligation(s) to NJDEP's satisfaction. Nothing in this paragraph shall prevent NJDEP from collecting stipulated penalties pursuant to the terms of this ACO for cause.

E. Upon NJDEP's written approval of a Negative Declaration(s), the Ordered Party(ies) shall be relieved of any further obligation to maintain in full force and effect the financial assurance(s) required by this ACO for the facility(ies) which is the subject of the NJDEP-approved Negative Declaration(s). Upon NJDEP's written approval of the completion of any cleanup(s) required by this ACO, as verified by final site inspection(s) pursuant to N.J.A.C. 7:1-3.12(e), and upon the Ordered Party(ies')'s satisfaction of all financial obligations in connection therewith, the Ordered Party(ies) shall be relieved of any further obligation to maintain in full force and effect the financial assurance(s) required by this Administrative Consent Order for the facility(ies) at which the approved cleanup(s) has been completed.

II. Additional Conditions of Consent

A. The Ordered Party(ies) shall allow NJDEP access to each subject Industrial Establishment for the purpose of undertaking all necessary monitoring and environmental cleanup activities. The Ordered Party(ies) has provided NJDEP with appropriate documentation that the Buyer shall allow the NJDEP access required herein.

B. Compliance with the terms of this ACO shall not excuse the Ordered Party(ies) from obtaining and complying with any applicable federal and state permits, statutes, regulations and/or orders while carrying out the obligations imposed by ECRA through this ACO. The execution of this ACO shall not excuse the Ordered Party(ies) from compliance with all other applicable environmental permits, statutes, regulations and/or orders and shall not preclude NJDEP from requiring that the Ordered Party(ies) obtain and comply with any permits, and/or orders issued by NJDEP under the authority of the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and the Spill Compensation and Control Act ("Spill Act") N.J.S.A. 58:10-23.11 et seq., for the matters covered herein.

The terms and conditions of any such permit shall not be preempted by the terms and conditions of this ACO if the terms and conditions of any such permit are more stringent than the terms and conditions of this ACO. Should any of the measures to be taken by the Ordered Party(ies) during the remediation of any ground water and surface water pollution result in a new or modified discharge as defined in the New Jersey Pollutant Discharge Elimination System ("NJPDES") regulations, N.J.A.C. 7:14A-1 et seq., then the Ordered Party(ies) shall obtain a NJPDES permit or permit modification from NJDEP prior to commencement of said activity.

C. NJDEP reserves the right to stop any construction, improvement(s), or change(s) at the Industrial Establishment(s) subject to this ACO, due to the presence of hazardous substances or wastes, the disturbance of which, prior to implementation of NJDEP -approved Cleanup Plan, has the potential to cause harm to public health, safety and welfare as determined by the NJDEP.

D. NJDEP agrees that it will not bring any action, nor will it recommend that the Attorney General's Office bring any action, including monetary penaltis, for the Ordered Party(ies')'s failure to comply with (a) the time requirements in N.J.S.A. 13:1K-9(b)1 that NJDEP be notified within five (5) days of execution of an Agreement of Sale or public release of tis decision ot close, and (b) the time requirement in N.J.S.A. 13:1K-9(b)2 that a Negative Declaration or Cleanup Plan be submitted sixty (60) days prior to Transfer of Title or closing operations.

E. No obligations imposed by this ACO (other than by paragraph 10.G below) are intended to constitute a debt, claim, penalty or other civil action which could be limited or discharged in a bankruptcy proceeding. All obligations imposed by this Administrative Consent Order shall constitute continuing regulatory obligations imposed pursuant to the police power of the State of New Jersey, intended to protect the public health, safety and welfare.

F. This ACO imposes certain requirements and deadlines upon the Ordered Party(ies). the Ordered Party(ies) agrees to use its best efforts to comply with said requirements and NJDEP agrees not to act unreasonably in the enforcement and implementation of this ACO.

G. In the event that the Ordered Party(ies) fails to comply with any of the provisions of this ACO, the Ordered Party(ies) shall pay to NJDEP stipulated penalties in the amount of up to $5,000.00 at the discretion of NJDEP per day for each subject Industrial Establishment for which the Ordered Party(ies) fails to comply with any obligation under this Administrative Consent Order; provided, however, that no such stipulated penalty shall be payable by the Ordered Party(ies) with respect to such period that said failure to comply results from Force Majeure. the Ordered Party(ies) waives its rights to contest NJDEP's exercise of discretion concerning the amount of any penalty assessed by NJDEP pursuant to this paragraph.

H. The provisions of this ACO shall be binding upon the Ordered Party(ies) and its successors in interest, assigns, tenants, and any trustee in bankruptcy or receiver appointed pursuant to a proceeding in law or equity. Any officer or management offical of the Ordered Party(ies) who knowingly directs or authorizes the violation of any provision of ECRA or the Regulations shall be personally liable for the penalty established pursuant to N.J.S.A. 13:1K-13 and N.J.A.C. 7:1:-3.6(d).

I. The Ordered Party(ies')'s failure to submit an approvable Negative Declaration(s) or Cleanup Plan(s) for any or all of the subject Industrial Establishments, as the case may be, shall constitute grounds for the NJDEP to void the subject sale or transfer of that facility(ies). NJDEP's right to void the subject sale or transfer shall terminate upon NJDEP's written approval of an appropriate Negative Declaration(s) or Cleanup Plan(s) for any or all of the subject Industrial Establishments, as the case may be, submitted by the Ordered Party(ies) pursuant to this ACO and ECRA.

J. Any submission to be made to NJDEP in accordance with this ACO shall directed to:

Lance R. Miller, Chief
Bureau of Industrial Site Evaluation
Division of hazardous Waste Management
CN 028
Trenton, NJ 08625

12. Force Majeure

If any fire, flood, storm, riot, strike, or other circumstance dtermined by NJDEP to be beyond the control of the Ordered Party(ies) occurs which causes or may cause delays in the achievement of any deadline contained in this ACO, the Ordered Party(ies) shall notify NJDEP in writing within ten (10) days of the delay or anticipated delay, as appropriate, referencing this paragraph and describing the anticipated length, precise cause or causes, measures taken or to be taken and the time required to minimize the delay. The Ordered Party(ies) shall adopt all necessary measures to prevent or minimize any delay. If any delay or anticipated delay has been or will be caused by fire, flood, storm, riot, strike or other circumstances determined by NJDEP to be beyond the control of the Ordered Party(ies), then the time for performance hereunder shall be extended by NJDEP for a period no longer than the delay resulting from such circumstances, provided that NJDEP may grant additional extensions for good cause. If the events causing such delay are not found by NJDEP to be beyond the control of the Ordered Party(ies), failure to comply with the provisions of the ACO shall constitute a breach of the ACO's requirements. The burden of proving that any delay is caused by circumstances beyond the Ordered Party(ies')'s control and the length of such delay attributable to those circumstances shall rest with the Ordered Party(ies). Increases in the costs or expenses incurred in fulfilling the requirements contained herein shall not be a basis for an extension of time. Similarly, delay in completing an interim requirement shall not automatically justify or excuse delay in the attainment of subsequent requirements.

13. Reservation of Rights

This ACO shall be fully enforceable in the New Jersey Superior Court having jurisdiction over the subject matter and signatory parties upon the filing of a summary action for compliance pursuant to ECRA. This ACO may be enforced in the same manner as an Administrative Order issued by NJDEP pursuant to other statutory authority and shall not preclude NJDEP from taking whatever action it deems appropriate to enforce the environmental protection laws of the State of New Jersey. It is expressly recognized by NJDEP and the Ordered Party(ies) that nothing in this ACO shall be construed as a waiver by NJDEP of its rights with respect to enforcement of ECRA on bases other than those set forth in the ECRA Program Requirements section of this ACO or by the Ordered Party(ies) of its right to seek review of any enforcement action as provided by the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq. Furthermore, nothing in this ACO shall constitute a waiver of any statutory right of NJDEP to require the Ordered Party(ies) to implement additional remedial measures should NJDEP determine that such measures are necessary to protect the public health, safety and welfare.

14. The Ordered Party(ies) agrees not to contest the authority or jurisdiction of the Department to issue the ACO and also agrees not be contest the terms of this ACO in any act to enforce its provisions.

15. Responsibility of the Ordered Parties

A. The Ordered Parties have informed NJDEP that NPN, Inc. shall be the lead party for contact with NJDEP for compliance with the terms and conditions of this ACO. NJDEP and the Ordered Parties have agreed that the Ordered Parties shall be responsible, each of them jointly, severally and individually, for performance of all the obligations listed in this ACO.

B. NJDEP and the Ordered Parties mutually agree that in the event that NPN, Inc. or Whippany Paper Board Co., Inc. fails or refuses to perform any ECRA obligations, as determined by NJDEP, NJDEP may exercise full discretion concerning the ECRA obligations of the Ordered Parties for ECRA compliance. The Ordered Parties expressly agree that in the event that NPN, Inc. or Whippany Paper Board Co., Inc. fails or refuses to perform any obligation(s) under this ACO as determined by NJDEP, NJDEP shall have the right to exercise any option or combination of options available to NJDEP under this ACO, ECRA, the Regulations or any other statute to ensure full and complete ECRA compliance by NPN, Inc. and/or Whippany Paper Board Co., Inc.

16. This ACO shall take effect upon the execution of this ACO by the parties together with the obtaining of financial assurance in the amount of $200,000.00 for the Clifton facility, $2,500,000.00 for the Eden facility, and $2,500,000.00 for the Hanover facility. This ACO shall be null and void unless the parties sign and submit this ACO and financial assurance to NJDEP within thirty (30) days of the date of signing of this Administrative Consent Order by NJDEP. Upon the effective date of this Administrative Consent Order, the Ordered Party(ies) may complete the Transaction subject to this Administrative Consent Order. The Ordered Party(ies) shall submit a fully executed ACO to NJDEP together with the financial assurance required within one (1) business day from the effective date.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Date: 12/16/86

By: Ronald Corcory

Ronald Corcory, Assistant Director for Enforcement & Field Operations

NPM, INC.
(Ordered Party)

Date: [illegible]

By: [illegible]

Name: Bernard Stutzin

Title: Treasurer

WHIPPANY PAPER BOARD CO., INC.
(Ordered Party)

Date: [illegible]

By: [illegible]

Name: John G. Neu

Title: President

Need a timetable Now

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COUNSELLORS AT LAW

80 PARK PLAZA

NEWARK, N J 07102

201 642-3900 212 571-0240

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TWX 7109954409

TELECOPIER 201 642-7413

ATLANTIC CITY OFFICE

26 SOUTH PENNSYLVANIA AVENUE

ATLANTIC CITY, N J 08401

(609) 347-7330

GEORGE S. FISCHLER
ARNOLD K. MYTELKA
STUART L. RACHMAN
RODER S. CLAPP
WILLIAM J. O'SHAUGHNESSY
EDWARD N. FITZPATRICK
HOWARD T. ROSEN
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SALVATORE T. ALFANO
JEFFREY M. SCHWARTZ
FREDERIC S. KESSLER
MARK FALK
ROBERT A. MARSICO
JOHN L. CONOVER

OF COUNSEL

ALFRED C. CLAPP
JEROME C. EISENBERG
JOHN M. SCAGNELLI

JOHN A. AVERY
PETER R. YAREM
KATHY M. HOOKE
BRYNA L. EDWARDS
DANIEL J. WAGNER
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AGNES L. RYNER
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RANDI SCHILLINGER
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BERNADETTE M. PESLAK
HARVEY C. KAISH
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VINCENT F. PAPALIA
LAWRENCE H. ROSS
CAMILLE M. KENNY
CHRISTOPHER M. HARTWYK
ROBERT J. ROHRBERGER

September 29, 1987

FEDERAL EXPRESS

Bureau of Applicability and Compliance
Industrial Site Evaluation Element
401 East State Street - 5th Floor
CN 028
Trenton, New Jersey 08625

Attention: George Cook

Re: Whippany Paper Board Co., Inc.
1 Ackerman Avenue, Lot 4-15, Block 1
Clifton, New Jersey
ECRA Case No. 85193

Dear George:

We represent Whippany Paper Board Co., Inc. ("Whippany") and I am writing to confirm your recent discussion with Andy Feuerstein of Whippany.

As Mr. Feuerstein advised you, Whippany is scheduled to close the sale transaction transferring the Clifton facility to V. Ponte & Sons, Inc. ("Ponte") this week. Ponte is obligated under the Contract of Sale to comply with the entire ECRA process for the Clifton facility. We have spoken with representatives of Ponte regarding the Department's desire to receive a response to the Department's August 26, 1986 letter and we anticipate that Ponte will contact the Department promptly after the closing with respect to the August 26, 1986 letter.

I advised Barbara Strollo of these developments last week and of our continuing interest and concern to insure that the ECRA compliance process proceeds expeditiously. As you are aware, Whippany is now working cooperatively with the Department in proceeding with the ECRA compliance process for its Eden and Hanover facilities.

I would be delighted to provide either you or Barbara with further information or to answer any additional questions which you might have concerning this case.

Best Regards.

Sincerely,

John M. Scagnelli

JS/bjt
cc: Barbara Strollo, BISE

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ABK000554

946010254

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COUNSELLORS AT LAW

80 PARK PLAZA

NEWARK, N. J. 07102

201 642-3900 (212) 571-0240

CABLE CLAPPEISEN

TWX 7109954409

TELECOPIER (201) 642-7413

ATLANTIC CITY OFFICE

26 SOUTH PENNSYLVANIA AVENUE

ATLANTIC CITY, N. J. 08401

(609) 347-7330

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CHRISTOPHER M. HARTWYK
ROBERT J. ROHRBERGER
CAROL A. CAGAZZA
STEVEN T. JAFFE

October 9, 1987

BY HAND

Bureau of Applicability and Compliance
Industrial Site Evaluation Element
401 East State Street - 5th Floor
CN 028
Trenton, New Jersey 08625

Attention: George Cook

Re: Whippany Paper Board Co., Inc.
1 Ackerman Avenue, Lot 4-15, Block 1
Clifton, New Jersey
ECRA Case No. 85193

Dear George:

We represent Whippany Paper Board Co., Inc. ("Whippany") and I am writing to update you concerning the developments since my September 29, 1987 letter.

Title to the Clifton facility has now been transferred to V. Ponte & Sons, Inc. ("Ponte"). Ponte is obligated under the Contract of Sale to comply with the ECRA process for the Clifton facility and has now written to advise the Department of that responsibility and to furnish a time table for compliance. A copy of Carol Surgens' October 8, 1987 letter to Barbara Strollo confirming this is enclosed.

Ponte, in Carol Surgens' October 8, 1987 letter, also requests that the Lowenstein, Sandler law firm be designated as authorized agent for this case and we consent to that request.

The various non-environmental (but rather legal and transactional) changes that have affected the Clifton facility in the past year have unfortunately resulted in some confusion (which, as you will see, has now been cleared).

Matters started when Whippany, a dormant company winding up its affairs after a bankruptcy, made a contract to sell the Clifton facility to Ponte (the "first Ponte contract"). This, of course, was an ECRA "trigger", as a result of which the parties began ECRA compliance procedures which led to the Department's August 26, 1986 letter. At the end of 1986, NPN, Inc. ("NPN") acquired a controlling interest in Whippany placing it under new management. To permit this acquisition, an ACO was issued by the Department to Whippany and NPN in December 1986. Upon assuming office, new management of Whippany terminated the first Ponte contract and assumed in good faith that any correspondence with, or obligations to, the DEP related to the first Ponte contract (including the August 26, 1986 letter which new management did not even know existed) were of no further import. Ponte then sued contesting the termination of the first Ponte contract. The suit was settled by a new contract of sale to Ponte which was thought to be a new "trigger" requiring ECRA compliance. Ponte sought an ACO but received instead a letter of non-applicability dated September 18, 1987, which permitted the sale to Ponte to close; and the closing took place on October 1, 1987.

At this point, as shown by Ms. Surgens' October 8, 1987 letter, Ponte has assumed the obligation to clean up the Clifton facility and has taken steps to do so.

The foregoing explains Whippany's failure to respond to the Department's August 26, 1986 letter and also explains its activities relative to the Clifton facility since the December 1986 Whippany and NPN ACO. Whippany had been in litigation with Ponte and that litigation has now been resolved. Through the now completed sale of the Clifton facility to Ponte, and Ponte's assumption of ECRA compliance responsibility, the ECRA compliance process can and will be completed.

As for Frank David Kobola's short meeting on July 30, 1987 with you and Anthony Cinque, which I understand was arranged spontaneously by Mr. Kobola while he was at the DEP on business relating to the Eden and Hanover Facilities, Whippany apologizes for its failure to follow through with the letter promised by Mr. Kobola. Unfortunately, due to a miscommunication, Whippany subsequently believed that you had been made fully aware of the new Ponte contract, that you were content to await the sale to Ponte for Ponte to assume compliance responsibilities, and that you were no longer expecting the letter discussed with Mr. Kobola.

We believe that Carol Surgens' October 8, 1987 letter otherwise addresses the concerns stated in the Department's September 29, 1987 letter and that the Department can now work with the Lowenstein, Sandler firm and Hazardous Waste Engineering Consultants, Inc., Ponte's environmental consultant, to complete the ECRA process for the cleanup of the Clifton facility.

While the relationship between Ponte and Whippany's new management started in an adversary atmosphere, it concluded most amicably and Whippany has every reason to expect that Ponte, a financially strong company who has selected advisors of excellent reputation, will fully and expeditiously comply with its obligations under its contract with Whippany and with Whippany's obligations under the December 1986 ACO.

Whippany, under its new management, will continue to work independently and cooperatively with the Department in proceeding with the ECRA compliance process for its Eden and Hanover facilities.

We appreciate the Department's cooperation.

Sincerely,

John M. Scagnelli

JS/bjt
Encs.
cc: Barbara Strollo, BISE
Michael Mandracchia, BISE

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

VIA FAX

October 26, 1988

State of New Jersey
Department of Environmental Protection
Division of Waste Management
Hazardous Site Mitigation Administration
CN-028
Tranton, New Jersey 08625

Attention: Mr. Sal Balek, Case Manager

Re: Recycled Paper Board/
Former Whippany Paper Board
One Ackerman Avenue
Clifton, New Jersey
ECRA Case # 85193

Dear Sir:

This letter is written in response to our most recent telephone conversation concerning the former Whippany Paper Board Company Site (Recycled Paper Board) located at One Ackerman Avenue, Clifton, New Jersey. As you know, we are waiting for department approval of our Soil Clean-up Plan, dated May 24, 1988. We understand that our report is on the ECRA Priority List and we should expect written correspondence shortly. Please be aware that Time is of the Essence.

In addition and for the purposes of this letter, we are awaiting written approval to begin the ground water program. Based on our telephone conversation, we understand that the following issues have been approved by the department.

Groundwater

1. Install one (1) upgradient monitoring well (replacement well) to be located roughly ten (10) to one hundred and fifty (150) feet south of abandoned monitoring well #1.

2. Installation of monitoring wells near the 160,000 gallon above ground tank and drum storage area is not required by the department.

3. Groundwater sampling of all five (5) monitoring wells will be initiated two (2) weeks after the completion of monitoring well #1. The water samples will be tested for petroleum hydrocarbons and priority pollutants +40, less the pesticide and heavy metals fraction. A second set of samples will be collected thirty (30) days after the first round of sampling.

Backfill Material

1. The proposed backfill material described in the RAIA Industries letter and affidavit is approved by the department with the understanding that crushed stone and asphalt will cap all excavated areas.

2. Written correspondence concerning clean-up approval will be submitted to us within ten (10) days.

Please acknowledge the above activities as department approved by signing the letter below. Please facsimile the letter to us as soon as possible (FAX# 914-941-4154). We expect to drill the replacement monitoring well within seven (7) days of this letter.

Thank-you for your immediate attention in this matter.

Sincerely,

HAZARDOUS WASTE ENGINEERING CONSULTANTS

Gail Mazzarell

Gail Mazzarell
Environmental Project Manager

Approved:_____
Title:_____ Date:_____
Supervisor:_____

CLIENT Testwell Craig
JOB NO. 20860-451

SOIL

EPA PRIORITY POLLUTANT
VOLATILE COMPOUNDS
ug/kg (dry weight)

Dilution Factor (DF)	1.0	1.28					Lower Limits c Detectic (LLD) with no Dilution
Method Blank I.D.	>E5804	>E5804					
Client I.D.	VBLK	VP/DS1					
Compound Lab I.D.	QC0182-V10	451001					
Chloromethane	U	U					10
Bromomethane	U	U					10
Vinyl Chloride	U	U					10
Chloroethane	U	U					10
Methylene Chloride	7	30B					5
Trichlorofluoromethane	U	U					5
1,1-Dichloroethene	U	U					5
1,1-Dichloroethane	U	U					5
trans-1,2-Dichloroethene	U	U					5
Chloroform	U	U					5
1,2-Dichloroethane	U	U					5
1,1, 1-Trichloroethane	U	U					5
Carbon Tetrachloride	U	U					5
Bromodichloromethane	U	U					5
2-Chloroethylvinyl ether	U	U					5
1,2-Dichloropropane	U	U					5
trans-1,3-dichloropropene	U	U					5
Trichloroethylene	U	U					5
Benzene	U	U					5
cis-1,3-Dichloropropene	U	U					5
Dibromochloromethane	U	U					5
1,1,2-Trichloroethane	U	U					5
Bromoform	U	U					5
Tetrachloroethylene	U	U					5
1,1,2,2-Tetrachloroethane	U	U					5
Toluene	2J	U					5
Chlorobenzene	U	U					5
Ethyl Benzene	U	U					5

*MDL (Minimum Detection Limit) = LLD x DF

ABK000605

946010263

LABORATORY NAME: [illegible]k Labs LAB I.D. [illegible]
CASE NO.: 20880-451 CLIENT I.D. VBLK

000004

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRAC-TION	RT (MIN)	SCAN	ESTIMATED CONCEN-TRATION (ug/kg)
1 67641	**2-Propanone	VOA	8.55	109	24
2 1066406	Silanol, trimethyl- (Column Bleed)	VOA	16.55	233	6
3 --	unknown ketone	VOA	22.80	330	3
4 --	unknown ketone	VOA	24.35	354	5
5					
6	**Possible Lab Contamination				
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

LABORATORY NAME: York Labs LAB I.D. 451001
CASE NO.: 20880-451 CLIENT I.D. VP/DS1

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT (MIN)	SCAN	ESTIMATED CONCENTRATION (ug/kg)
1 67641	* **2-Propanone	VOA	8.48	108	11
2 --	unknown	VOA	10.87	145	10
3 --	unknown:Possible Carry Over	VOA	28.61	420	7
4 --	unknown alkene: Possible Carry Over	VOA	35.71	530	27
5	unknown alkene: Possible Carry Over	VOA	40.81	609	28
6					
7	*Present in Blank **Possible Lab Contamination				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

000366

CLIENT Testwell Craig
JOB NO. 20880-451

SOIL

EPA PRIORITY POLLUTANT
BASE/NEUTRAL COMPOUNDS
ug/kg (dry weight)

Dilution Factor (DF)	35.1	45.0				Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	>G0937	>G0937				
Client I.D.	Method Blank	VP-DS1				
Compound / Lab I.D.	QC-0354B	451001				
N-nitrosodimethyl amine	U	U				10
bis (2-chloroethyl) ether	U	U				10
1,3-dichlorobenzene	U	U				10
1,4-dichlorobenzene	U	U				10
1,2-dichlorobenzene	U	U				10
bis (2-chloroisopropyl) ether	U	U				10
hexachloroethane	U	U				10
N-nitroso-di-n propylamine	U	U				10
nitrobenzene	U	U				10
isophorone	U	U				10
bis (2-chloroethoxy) methane	U	U				10
1,2,4-trichlorobenzene	U	U				10
naphthalene	U	U				10
hexachlorobutadiene	U	U				10
hexachlorocyclopentadiene	U	U				10
2-chloronaphthalene	U	U				10
dimethyl phthalate	U	110J				10
acenaphthylene	U	U				10
2,6-dinitrotoluene	U	U				10
acenaphthene	U	U				10
2,4-dinitrotoluene	U	U				10
diethyl phthalate	U	150J				10
fluorene	U	34J				10
4-chlorophenyl-phenyl ether	U	U				10
4-bromophenyl phenyl ether	U	U				10
N-nitrosodiphenylamine	U	U				10
hexachlorobenzene	U	U				10
phenanthrene	U	240J				10
anthracene	U	64J				10
di-n-butyl phthalate	U	400J				10
fluoranthene	U	340J				10
benzidine	U	U				80
pyrene	U	450				10
butyl benzyl phthalate	U	920				10
3,3 dichlorobenzidine	U	U				20
chrysene	U	220J				10

ABK000608

946010266

Dilution Factor (DF)	35.1	45.0				Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	>G0937	>G0937				
Client I.D.	Method Blank	VP-DS1				
Compound / Lab I.D.	QC-0354B	451001				
benzo (a) anthracene	U	150J				10
bis (2-ethyl hexyl) phthalate	280J	60000B				10
di-n-octyl phthalate	U	3500				10
benzo (b) fluoranthene	U	U				10
benzo (k) fluoranthene	U	U				10
benzo (a) pyrene	U	U				10
benzo (g,h,i) perylene	U	U				10
dibenzo (a,h) anthracene	U	U				10
Indeno (1,2,3,c,d) pyrene	U	U				10

*MDL (Minimum Detection Limit) = LLD x DF

CLIENT Testwell Craig
JOB NO. 20880-451

SOIL

EPA PRIORITY POLLUTANTS
ACID EXTRACTABLE COMPOUNDS
ug/kg (dry weight)

Dilution Factor (DF)	35.1	45.0				Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	>G0937	>G0937				
Client I.D.	Method Blank	VP-DS1				
Lab I.D.	QC-0354B	451001				
phenol	U	U				10
2-chlorophenol	U	U				10
2-nitrophenol	U	U				10
2,4-dimethylphenol	U	U				10
2,4-dichlorophenol	U	U				10
4-chloro-3-methyl phenol	U	U				10
2,4,6-trichlorophenol	U	U				10
2,4-dinitrophenol	U	U				50
4-nitrophenol	U	U				50
2-methyl-4,6-dinitrophenol	U	U				50
pentachlorophenol	U	U				50

*MDL (Minimum Detection Limit) = LLD x DF

0000-0

LABORATORY NAME: York Labs LAB I.D. 451001
CASE NO.: 20880-451 CLIENT I.D. VP-DS1

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRAC-TION	RT (MIN)	SCAN	ESTIMATED CONCEN-TRATION (ug/kg)
1	694871	Bicyclo[4.2.0]octa-1,3,5-triene	BNA	7.40	53	2600
2	--	methylethyl Benzene isomer	BNA	8.10	120	460
3	--	unknown cycloalkane	BNA	8.39	148	200
4	103651	Benzene,propyl-	*BNA	8.70	177	270
5	--	unknown aromatic	BNA	8.84	191	520
6	--	*unknown	BNA	9.17	222	1100
7	--	Bicyclo[2.2.1]hept-2-ene,1,7,7-trimethyl-	BNA	10.16	317	230
8	--	unknown	BNA	12.70	561	210
9	--	unknown alkane	BNA	18.67	1133	860
10	--	unknown	BNA	19.38	1201	350
11	--	unknown alkane	BNA	19.90	1251	520
12	--	unknown aromatic	BNA	20.46	1304	1000
13	--	1,1'-(1,2-cyclobutanediyl)bis-Benzene isomer (trans or cis)	BNA	20.87	1343	1300
14	--	unknown	BNA	21.41	1395	2400
15	--	unknown	BNA	23.39	1583	510
16	--	unknown alkane	BNA	25.18	1753	57
17	--	**Hexanedioic acid,dioctyl ester	BNA	27.04	1929	47
18	--	phosphoric acid,triphenyl ester	BNA	27.36	1960	140
19	--	unknown aromatic	BNA	27.84	2005	170
20	--	unknown	BNA	28.74	2090	78
21	--	unknown	BNA	28.83	2099	130
22	--	unknown	BNA	28.97	2112	60
23	--	unknown phthalate ester	BNA	31.38	2340	5100
24	--	unknown phthalate ester	BNA	33.18	2510	2000
25		**Possible Lab Contaminant				

ABK000611

946010269

000011

CLIENT Testwell Craig
JOB NO. 20880-451

SOIL

EPA PRIORITY POLLUTANTS
PESTICIDES/PCB's
ug/kg (dry weight)

Dilution Factor (DF)	1.00	1.28				Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	a-263463	a-263463				
Client I.D.	METHOD BLANK	VP/DS1				
Compound / Lab I.D.	QC-0326P	451001				
alpha BHC	U	U				1.4
beta BHC	U	U				1.6
gamma BHC	U	U				1.5
delta BHC	U	U				1.3
Heptachlor	U	U				1.7
Aldrin	U	U				1.4
4,4' DDE	U	U				2.8
Dieldrin	U	U				2.7
4,4' DDD	U	U				3.2
Endrin Aldehyde	U	U				3.5
4,4' DDT	U	U				6.0
Chlordane	U	U				17
Endosulfan I	U	U				2.8
Endosulfan II	U	U				3.0
Endosulfan Sulfate	U	U				3.1
Endrin	U	U				3.2
Heptachlor Epoxide	U	U				1.5
Toxaphene	U	U				33
PCB - 1016	U	U				53
PCB - 1221	U	U				53
PCB - 1232	U	U				53
PCB - 1242	U	U				53
PCB - 1248	U	U				53
PCB - 1254	U	2100				53
PCB - 1260	U	U				53

*MDL (Minimum Detection Limit) = LLD X DF

ABK000612

946010270

Client: Testwell Craig
Job No: 20880-451

Inorganic Data Summary
mg/kg

Analyte	Lab I.D. / Client I.D.	451001 / VP/DS1
Antimony		18.1
Arsenic		<0.5
Beryllium		0.25
Cadmium		8.07
Chromium		14.5
Copper		2440
Lead		457
Mercury		2.9
Nickel		41.9
Selenium		<0.5
Silver		4.51
Thallium		5.77
Zinc		1090
Cyanide		0.09
Phenols		0.06

JANUARY 11, 1989

#20890-186
HAZARDOUS WASTE ENGINEERING CONSULTANTS
47 HUDSON STREET
OSSINING, NY 10562

ATTENTION: MR. LEN ROBBINS

PURPOSE AND RESULTS:

Three (3) samples were received on December 5, 1988 for analysis by York Laboratories of New Jersey, Inc. These samples were analyzed for Priority Pollutant Base Neutrals +15 and Priority Pollutant Metals by EPA Methods 3550/8270 and CLP SOW 787. All extractions and analyses were performed within the recommended holding times.

Results are in the following tables, with chain-of-custody and support documentation included as an Appendix.

DATA RELEASE AUTHORIZED BY: Cindy C Carfolo
for Kyle E. Dolbow, Ph.D.
President

The liability of York Laboratories of New Jersey, Inc. is limited to the actual dollar value of this project.

QUALIFIERS

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

D - Sample extract was diluted by the factor listed due to the sample matrix and/or concentration levels. All method lower limits of detection for this sample are necessarily increased by this dilution factor.

CLIENT HWEC
JOB NO. 20890-156

SOIL

EPA PRIORITY POLLUTANT
BASE/NEUTRAL COMPOUNDS
ug/kg (dry weight)

Dilution Factor (DF)	35.1	36.2	39.6	37.		Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	>D5841	>D5841	>D5841	>D5841		
Client I.D.	Method Blank	WP-GS-1	WP-GS-2	WP-GS-3		
Compound / Lab I.D.	QC-0546B	186001	186002	186003		
N-nitrosodimethyl amine	U	U	U	U		10
bis (2-chloroethyl) ether	U	U	U	U		10
1,3-dichlorobenzene	U	U	U	U		10
1,4-dichlorobenzene	U	U	U	U		10
1,2-dichlorobenzene	U	U	U	U		10
bis (2-chloroisopropyl) ether	U	U	U	U		10
hexachloroethane	U	U	U	U		10
N-nitroso-di-n propylamine	U	U	U	U		10
nitrobenzene	U	U	U	U		10
isophorone	U	U	U	U		10
bis (2-chloroethoxy) methane	U	U	U	U		10
1,2,4-trichlorobenzene	U	U	U	U		10
naphthalene	U	U	590	34J		10
hexachlorobutadiene	U	U	U	U		10
hexachlorocyclopentadiene	U	U	U	U		10
2-chloronaphthalene	U	U	U	U		10
dimethyl phthalate	U	U	52J	U		10
acenaphthylene	U	U	U	U		10
2,6-dinitrotoluene	U	U	U	U		10
acenaphthene	U	U	U	U		10
2,4-dinitrotoluene	U	U	U	U		10
diethyl phthalate	U	U	170J	18J		10
fluorene	U	U	U	U		10
4-chlorophenyl-phenyl ether	U	U	U	U		10
4-bromophenyl phenyl ether	U	U	U	U		10
N-nitrosodiphenylamine	U	U	U	U		10
hexachlorobenzene	U	U	U	U		10
phenanthrene	U	130J	36J	96J		10
anthracene	U	34J	U	U		10
di-n-butyl phthalate	U	U	370J	32J		10
fluoranthene	U	U	23J	110J		10
benzidine	U	U	U	U		80
pyrene	U	220J	26J	120J		10
butyl benzyl phthalate	U	U	U	U		10
3,3 dichlorobenzidine	U	U	U	U		20
chrysene	U	U	U	70J		10

Dilution Factor (DF)	35.1	36.2	39.6	37.0		Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	>D5841	>D5841	>D5841	>D5841		
Client I.D.	Method Blank	WP-GS-1	WP-GS-2	WP-GS-3		
Compound / Lab I.D.	QC-0546B	186001	186002	186003		
benzo (a) anthracene	U	U	U	62J		10
bis (2-ethyl hexyl) phthalate	51J	140JB	95JB	110JB		10
di-n-octyl phthalate	U	U	U	U		10
benzo (b) fluoranthene	U	U	U	110J		10
benzo (k) fluoranthene	U	U	U	U		10
benzo (a) pyrene	U	U	U	6J		10
benzo (g,h,i) perylene	U	U	U	U		10
dibenzo (a,h) anthracene	U	U	U	U		10
indeno (1,2,3,c,d) pyrene	U	U	U	U		10

*MDL (Minimum Detection Limit) = LLD x DF

CLIENT HWEC
JOB NO. 20890-186

SOIL

EPA PRIORITY POLLUTANTS
ACID EXTRACTABLE COMPOUNDS
ug/kg (dry weight)

Dilution Factor (DF)	35.1	36.2	39.6	37.0		Lower Limits of Detection (LLD) with no Dilution*
Method Blank I.D.	>D5841	>D5841	>D5841	>D5841		
Client I.D.	Method Blank	WP-GS-1	WP-GS-2	WP-GS-3		
Lab I.D.	QC-0546B	186001	186002	186003		
phenol	U	U	U	U		10
2-chlorophenol	U	U	U	U		10
2-nitrophenol	U	U	U	U		10
2,4-dimethylphenol	U	U	U	U		10
2,4-dichlorophenol	U	U	U	U		10
4-chloro-3-methyl phenol	U	U	U	U		10
2,4,6-trichlorophenol	U	U	U	U		10
2,4-dinitrophenol	U	U	U	U		50
4-nitrophenol	U	U	U	U		50
2-methyl-4,6-dinitrophenol	U	U	U	U		50
pentachlorophenol	U	U	U	U		50

*MDL (Minimum Detection Limit) = LLD x DF

LABORATORY NAME: [illegible] Labs LAB I.D. QC0546B
CASE NO.: [illegible]890-186 CLIENT I.D. Method Blank

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT (MIN)	SCAN	ESTIMATED CONCENTRATION (ug/kg)
1 --	unknown	BNA	3.48	63	410
2 --	chlorotrimethyl cyclopropane isomer	BNA	3.60	75	210
3 --	unknown alkane	BNA	3.73	87	440
4 108883	Benzene,methyl-	BNA	3.77	91	320
5 --	unknown alkane	BNA	3.89	102	260
6 --	unknown	BNA	4.83	193	590
7 --	unknown	BNA	5.07	216	950
8 --	**Aldol condensation byproduct	BNA	5.71	277	44000
9 --	unknown	BNA	6.95	396	2200
10 --	unknown	BNA	8.70	564	410
11 --	unknown	BNA	29.40	2551	250
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22	**Disregard as per CLP				
23					
24					
25					

001007

LABORATORY NAME: [illegible] Labs LAB I.D. 186001
CASE NO.: [illegible]-186 CLIENT I.D. WP-GS-1

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (MIN)	SCAN	ESTIMATED CONCENTRATION (ug/kg)
1	108883	*Benzene,methyl-	BNA	3.75	92	200
2	--	trichloro ethane isomer	BNA	3.84	102	190
3	--	unknown alkane	BNA	4.16	131	500
4	141797	**3-penten-2-one,4-methyl-	BNA	4.39	153	170
5	--	unknown alkane	BNA	4.43	157	340
6	--	unknown	BNA	4.49	163	210
7	--	*unknown	BNA	4.82	194	480
8	--	**Aldol condensation byproduct	BNA	5.47	257	19000
9	--	dimethyl benzene isomer	BNA	5.93	301	160
10	79345	Ethane,1,1,2,2-tetrachloro-	BNA	6.82	386	250
11	--	unknown	BNA	6.87	391	500
12	--	unknown	BNA	8.69	566	210
13	--	unknown	BNA	18.25	1482	170
14	--	unknown	BNA	24.14	2044	640
15						
16						
17						
18						
19						
20						
21						
22		*Present in Blank **Disregard as per CLP				
23						
24						
25						

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LABORATORY NAME: York Labs LAB I. 186002
CASE NO.: 20890-186 CLIENT I.D. WP-GS-2

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

*Present in Blank **Disregard as per CLP

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (MIN)	SCAN	ESTIMATED CONCENTRATION (ug/kg)
1	108883	*Benzene, methyl-	BNA	3.77	91	540
2	--	unknown alkane	BNA	4.18	130	380
3	--	unknown alkane	BNA	4.45	156	280
4	--	*unknown	BNA	4.85	194	610
5	--	**Aldol condensation byproduct	BNA	5.53	[illegible]	21000
6	--	dimethyl benzene isomer	BNA	5.95	300	560
7	--	*unknown	BNA	6.90	391	600
8	--	unknown	BNA	7.29	428	310
9	--	unknown alkane	BNA	8.57	551	420
10	--	unknown	BNA	8.71	564	400
11	--	methyl methylethenyl cyclohexene isomer	BNA	9.16	607	790
12	--	unknown alkane	BNA	10.39	725	490
13	--	unknown alkane	BNA	12.05	884	1200
14	--	unknown alkane	BNA	13.60	1031	220
15	--	unknown alkane	BNA	15.04	1169	350
16	--	unknown	BNA	20.21	1663	880
17	--	unknown acid	BNA	21.76	1810	490
18	--	unknown	BNA	23.14	1941	830
19	--	unknown alkane	BNA	24.12	2033	770
20	--	unknown alkane	BNA	25.03	2119	890
21	--	unknown alkane	BNA	25.91	2202	960
22	--	unknown alkane	BNA	26.75	2281	1000
23	--	unknown alkane	BNA	27.56	2357	1200
24	--	unknown alkane	BNA	28.34	2430	660
25	--	unknown alkane	BNA	31.24	2701	1100

LABORATORY NAME: Clark Labs LAB I.D. 186003
CASE NO.: 20290-186 CLIENT I.D. WP-GS-3

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT (MIN)	SCAN	ESTIMATED CONCENTRATION (ug/kg)
1 4806615	cyclobutane,ethyl-	BNA	4.17	133	360
2 --	unknown alkane	BNA	4.45	159	260
3 --	unknown alkane	BNA	4.50	164	160
4 --	*unknown	BNA	4.83	196	520
5 --	**Aldol condensation byproduct	BNA	5.51	261	20000
6 928949	2-Hexen-1-ol,(2)-	BNA	6.25	332	380
7 79345	Ethane,1,1,2,2-tetrachloro-	BNA	6.83	387	170
8 --	unknown alkane	BNA	6.89	393	580
9 --	unknown	BNA	8.32	530	180
10 --	unknown	BNA	8.70	567	360
11 --	unknown alkane	BNA	13.59	1035	290
12 --	unknown alkane	BNA	15.03	1173	330
13 --	unknown	BNA	16.45	1309	410
14 --	unknown alkane	BNA	18.26	1481	970
15 --	unknown alkane	BNA	18.88	1540	620
16 --	unknown alkane	BNA	18.94	1546	260
17 --	unknown alkane	BNA	21.12	1753	430
18 --	unknown alkane	BNA	22.16	1852	330
19 --	unknown alkane	BNA	24.10	2036	470
20 --	unknown alkane	BNA	25.89	2206	350
21					
22	*Present in Blank **Disregard as per CLP				
23					
24					
25					

CLIENT: HWEC
JOB NO: 20890-186

Soil

Inorganic Data Summary
mg/kg

Lab I.D. Client I.D. Analyte	186001 WP-GS-1	186002 WP-GS-2	186003 WP-GS-3	------ ------	------ ------
Antimony	<2.2	9.1	<2.2		
Arsenic	2.2	7.7	3.3		
Beryllium	<0.54	<0.59	<0.56		
Cadmium	<0.54	<0.59	<0.56		
Chromium	6.1	10	10		
Copper	27	705	147		
Lead	173	2420	277		
Mercury	<0.1	2.4	1.8		
Nickel	7.2	19	15		
Selenium	<0.54	3.9	<0.56		
Silver	<1.1	<1.2	<1.1		
Thallium	<1.1	<1.2	<1.1		
Zinc	52	180	168		

ANALYTICAL TEST RESULTS

PREPARED FOR:

HAZARDOUS WASTE ENGINEERING CONSULTANTS,INC.

PROJECT:

WHIPPANY PAPER BOARD

SAMPLES RECEIVED: JULY 17, 1990

HAZARDOUS WASTE ENVIRONMENTAL LABORATORY, INC.
47 HUDSON ST. BLDG B
OSSINING, NY 10562

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CLIENT: HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

01

FIELD ID	LAB ID #	SAMPLE LOCATION	DATE & TIME	
WPB-TB10	3004	N/A	7/11/90	11:00
WPB-FB11	3005	N/A	7/13/90	12:10
WPB-FB12	3006	N/A	7/13/90	12:10
WPB-FB13	3007	N/A	7/13/90	12:10
WPB-PE1(P)	3008	N/A	7/13/90	12:45
WPB-PE1(B)	3009	N/A	7/13/90	12:45
WPB-PE1(V)	3010	N/A	7/13/90	12:45
WPB-PE3A(V)	3011	N/A	7/13/90	13:05
WPB-PE2(P)	3012	N/A	7/13/90	12:55
WPB-PE2(B)	3013	N/A	7/13/90	12:55
WPB-PE2(V)	3014	N/A	7/13/90	12:55
WPB-PE3(P)	3015	N/A	7/13/90	13:05
WPB-PE3(B)	3016	N/A	7/13/90	13:05
WPB-PE3(V)	3017	N/A	7/13/90	13:05
WPB-PE3A(B)	3018	N/A	7/13/90	13:05
WPB-PE3A(P)	3019	N/A	7/13/90	13:05

LABORATORY NAME: HAZARDOUS WASTE ENVIRONMENTAL LABORATORY

LAB DIRECTOR: Phil A. Reado
PHIL READIO, PhD.

C3

CHAIN OF CUSTODY

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

04

CHAIN-OF-CUSTODY

Name of Unit and Address: Recycled Paper Board of Clifton

Person Assuming Responsibility for Samples: Len Warner

	Field Sample Number	Number of Containers	Size of Containers	Date / Time Sampled	Description of Sample	Lab Number
9.	4 WPB-PE2(P)	(1)	500 ml	7-13-90/1255	soil	3012
10.	4 WPB-PE2(B)	(1)	120 ml	7-13-90/1255	soil	3013
11.	4 WPB-PE2(V)	(2)	40 ml	7-13-90/1255	soil	3014
12.	4 WPB-PE3(P)	(1)	500 ml	7-13-90/1305	soil	3015
13.	4 WPB-PE3(B)	(1)	120 ml	7-13-90/1305	soil	3016
14.	4 WPB-PE3(V)	(2)	40 ml	7-13-90/1305	soil	3017
15.	4 WPB-PE3A(B)	(1)	120 ml	7-13-90/1305	soil	3018
16.	4 WPB-PE3A(P)	(1)	500 ml	7-13-90/1305	soil	3019

Remarks :

Number	Relinquished by:	Received by:	Time	Date	Reason for Change of Custody
16	Len Warner	J Guarino	4PM	7-18-90	Log-In
PBC 3,5,9,12,16	J Guarino	P Peck	900	7/18/90	Reason for Change of Custody
4,6,10,13,15	J Guarino	P Peck	900	7/18/90	Reason for Change of Custody
1,7,8,11,12,2	J Guarino	J Kinegan-Kelly	4/18	7/13/90	Reason for Change of Custody analyses

ABK000671

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HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

05

CHAIN-OF-CUSTODY

Name of Unit and Address:
RECYCLED PAPERBOARD of CLIFTON / WHIPPANY PAPERBOARD

Person Assuming Responsibility for Samples:
Len Warren, HWEC

Field Sample Number	Number of Containers	Size of Containers	Date / Time Sampled	Description of Sample	Lab Number
1. WPB-TB10	(2)	40 ml	7-11-90/1100	H_2O trip blank	3004
2. WPB-FB11	(2)	40 ml	7-13-90/1210	H_2O field blank	3005
3. WPB-FB12	(1)	1000 ml	7-13-90/1210	H_2SO_4-preserved H_2O field blank	3006
4. WPB-FB13	(2)	1000 ml	7-13-90/1210	H_2O field blank	3007
5. WPB-PE1(P)	(1)	500 ml	7-13-90/1245	soil	3008
6. WPB-PE1(B)	(1)	120 ml	7-13-90/1245	soil	3009
7. WPB-PE1(V)	(2)	40 ml	7-13-90/1245	soil	3010
8. WPB-PE3A(V)	(2)	40 ml	7-13-90/1305	soil	3011

Remarks :

Number	Relinquished by:	Received by:	Time	Date	Reason for Change of Custody
1	Len Warren	J Guarino	4 PM	7-13-90	Log In
3,5,9,10,11	J Guarino	P Reed	8:00	7/18/90	Reason for Change of Custody
4,6,10,13	J Guarino	P Reed	8:00	7/18/90	Reason for Change of Custody
4,7,8,11,12,2	J Guarino	J Finnegan Kelly	7:10	7/18/90	Reason for Change of Custody Analysis

ABK000672

946010289

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

ANALYSIS REQUEST

DATE: 7-13-90 CLIENT: RECYCLED PAPERBOARD & CLIFTON, INC.

PHC 3,5,9,12,16 pH _____ COD _____

SOLIDS, TSS _____ SOLIDS, TDS _____ SOLIDS, TOTAL _____

SOLIDS, VOLATILE _____

CG

PP PEST _____ TCL PEST, PCB _____

PCB (SOIL) _____ PCB (WATER) _____ PCB (OIL) _____

PP VOA 1,7,8,11,14,2 TCL VOA _____

PP BNA _____ TCL BNA ~~4,6,10,13,15~~ JB 7/14/90

PP BN 4,6,10,13 JB 7/14/90 PP AE _____

VOA BTX _____ TCLP VOLATILES (ZHE) _____

TIER I _____ TIER II X NO TICS _____

EP TOX METALS _____ TCLP METALS _____

PP METALS (13) _____ DRINK H2O METALS _____

MISC METALS ( ) _____

OTHER ANALYSES ( ) _____

AIR SAMPLES ( ) _____

SPECIAL INSTRUCTIONS _____

TURN AROUND TIME _____

REQUESTED BY: [illegible] H

REPORT SENT TO: " " DATE: 7-13-90

ABK000673

946010290

LABORATORY CHRONICLE

	I	DATE	II
Receipt/refrigeration	7/13/90		
Organics Extraction			
1. Acid			
2. Base/Neutral	7/18 & 19/90		8/1 & 9/90
3. Pesticide/PCBs			
4. Dioxin			
Analyses			
1. Volatiles	7/13,16,17/90		
2. Acid Extractables			
3. Base/Neutrals	8/15,16/90		8/17/90
4. Dioxin			
Inorganics			
1. Metals			
2. Cyanides			
3. Phenol			
OTHER ANALYTES			
PHC	7/17/90		

07

Section Supervisor (Signature) Janet Finegan-Kelly
Review & Approval Janet Finegan-Kelly
Date: 8/22/90

QC Supervisor (Signature) Phil Readio
Review & Approval Phil Readio, PhD
Date: 8/22/90

NOTE: If fractions are re-extracted and re-analyzed because the initial endeavors failed to meet the required Quality Control Criteria, the dates of re-extraction and/or re-analysis will be entered in Column II additionally.

NJDEP Form G-5
Rev. 8/86

C8

METHODOLOGY SUMMARY
HAZARDOUS WASTE ENVIRONMENTAL LABORATORY, INC.

AQUEOUS SAMPLE PREPARATION-REFERENCE(1)	METHOD	USED FOR THIS CASE
FLAME ATOMIC ABSORPTION	200.0	( )
FURNACE ATOMIC ABSORPTION	200.0	( )
MERCURY SAMPLE PREPARATION & ANALYSIS	245.1	( )
SOIL AND SEDIMENT SAMPLE PREPARATION-REFERENCE(2)		
FLAME ATOMIC ABSORPTION	3050	( )
FURNACE ATOMIC ABSORPTION	3050	( )
MERCURY SAMPLE PRFPARATION & ANALYSIS	7471	( )
FLAME AA (AQUEOUS/NON-AQUEOUS)-REFERENCE (1,2)		
ALUMINUM	202.1	( )
ANTIMONY	204.1/7040	( )
BARIUM	208.1/7080	( )
BERYLLIUM	210.1/7090	( )
CADMIUM	213.1/7130	( )
CHROMIUM	218.1/7190	( )
COBALT	219.1	( )
COPPER	220.1/7210	( )
IRON	236.1/7381	( )
LEAD	239.1/7420	( )
MANGANESE	243.1/7460	( )
MOLYBDENUM	246.1	( )
NICKEL	249.1/7520	( )
POTASSIUM	258.1	( )
SILVER	272.1/7760	( )
SODIUM	273.1/7770	( )
TIN	284.1	( )
VANADIUM	286.1/7910	( )
ZINC	289.1/7950	( )
FURNACE AA (AQUEOUS/NON-AQUEOUS)-REFERENCE (1,2)		
ANTIMONY	204.2/7040	( )
ARSENIC	206.2/7060	( )
LEAD	239.2/7421	( )
SELENIUM	270.2/7741	( )
THALLIUM	279.2/7841	( )
TIN	282.2	( )
VANADIUM	286.2/7911	( )

AQUEOUS SAMPLE PREPARATION-REFERENCE(1)	METHOD	USED FOR THIS CASE
SILVER	272.2	( )
CHROMIUM	218.2/7191	( )
CADMIUM	213.2/7131	( )
COPPER	220.2	( )
BERYLLIUM	210.2	( )
AQUEOUS METHODOLOGY-REFERENCE(3)		
ORGANOCHLORINE PESTICIDES/PCB's BY GC	606	( )
PURGEABLE ORGANICS BY GC/MS	624	(X)
BASE-NEUTRALS/ACIDS BY GC/MS	625	(X)
SOIL AND SEDIMENT METHODOLOGY- REFERENCE (3)		
ORGANOCHLORINE PESTICIDES/PCB's BY GC	8080	( )
PURGEABLE ORGANICS BY GC/MS	8240	(X)
BASE-NEUTRAL/ACIDS BY GC/MS	8270	(X)
PETROLEUM HYDROCARBONS-REF.(1 & 4)	418.1	(X)
MISCELLANEOUS PARAMETERS- REFERENCE (1 & 2)		
TOXICITY CHARACTERISTIC LEACHING PROCEDURE		( )
EXTRACTION PROCEDURE TOXICITY	1310	( )
TOTAL CYANIDE (LIQUID/SOLID)	335.3/9012	( )
PH	150/9045	( )
CHEMICAL OXYGEN DEMAND (LIQUID)	410.2	( )
TOTAL DISSOLVED SOLIDS	160.2	( )
IGNITABILITY	1020	( )
REACTIVITY	SW-847/CHAP7	( )

(1) METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTE-600/4-79-002
(2) SW-846 TEST METHODS FOR EVALUATING SOLID WASTE
(3) 40 CFR PART 136, VOL.49,NO. 209 TEST PARAMETERS FOR THE ANALYSIS OF POLLUTANTS
(4) AS MODIFIED BY NJ DEP-BISE

RESULTS

FOR

SOIL SAMPLES

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(SOIL)

11

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/1/90

Percent Moisture		N/A	10				
Dilution factor		N/A	N/A				
Lab Identification		VBLK	3014				
Client Identification			PE2				
File Identification		764	769				
CAS NO.	COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	MDL
74873	Chloromethane	U	U	U	U	U	10
74839	Bromomethane	U	U	U	U	U	10
75014	Vinyl Chloride	U	U	U	U	U	10
75003	Chloroethane	U	U	U	U	U	10
75092	Methylene Chloride	3	7	U	U	U	5
67641	Acetone	24	39	U	U	U	10
75150	Carbon Disulfide	U	U	U	U	U	5
75354	1,1-Dichloroethene	U	U	U	U	U	5
75343	1,1-Dichloroethene	U	U	U	U	U	5
540590	1,2-Dichloroethene(Total)	U	U	U	U	U	5
67663	Chloroform	5	13	U	U	U	5
107062	1,2-Dichloroethane	U	U	U	U	U	5
78933	2-Butanone	U	U	U	U	U	10
71556	1,1,1-Trichloroethane	U	U	U	U	U	5
56235	Carbon Tetrachloride	U	U	U	U	U	5
108054	Vinyl Acetate	U	U	U	U	U	10
75274	Bromodichloromethane	U	U	U	U	U	5
78875	1,2-Dichloropropane	U	U	U	U	U	5
10061015	cis-1,3-Dichloropropene	U	U	U	U	U	5
79016	Trichloroethene	U	U	U	U	U	5
124481	Dibromochloromethane	U	U	U	U	U	5
79005	1,1,2-Trichloroethane	U	U	U	U	U	5
71432	Benzene	U	U	U	U	U	5
10061026	Trans-1,3-Dichloropropene	U	U	U	U	U	5
75252	Bromoform	U	U	U	U	U	5
108101	4-Methyl-2-Pentanone	U	2	U	U	U	10
591786	2-Hexanone	U	2	U	U	U	10
127184	Tetrachloroethene	U	U	U	U	U	5
79345	1,1,2,2-Tetrachloroethane	U	U	U	U	U	5
108883	Toluene	U	U	U	U	U	5
108907	Chlorobenzene	U	U	U	U	U	5
100414	Ethylbenzene	U	U	U	U	U	5
100425	Styrene	U	U	U	U	U	5
1726	M-Xylene	U	U	U	U	U	5
172461727	O & P Xylene	U	U	U	U	U	5
541731	1,3 Dichlorobenzene	U	U	U	U	U	5
95501	1,2 Dichlorobenzene	U	U	U	U	U	5
106467	1,4 Dichlorobenzene	U	U	U	U	U	5
1634044	Methyl Tert Butylether	U	U	U	U	U	5
75694	Trichlorofluoromethane	U	0.7	U	U	U	5
71364	N -Butanol	U	U	U	U	U	5
110758	2-Chloroethyl Vinyl Ether	U	U	U	U	U	5

* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

ABK000678

946010295

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(SOIL)

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/1/90

Percent Moisture		N/A	16	9	9	
Dilution factor		N/A	N/A	N/A	N/A	
Lab Identification		VBLK	3010	3011	3017	
Client Identification			PE1	PE3A	PE3	
File Identification		775	777	778	779	
CAS NO.	COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	MDL
74873	Chloromethane	U	U	U	U	10
74839	Bromomethane	U	U	U	U	10
75014	Vinyl Chloride	U	U	U	U	10
75003	Chloroethane	U	U	U	U	10
75092	Methylene Chloride	2	4	4	4	5
67641	Acetone	6	76	68	57	10
75150	Carbon Disulfide	U	U	U	U	5
75354	1,1-Dichloroethene	U	U	U	U	5
75343	1,1-Dichloroethene	U	U	U	U	5
540590	1,2-Dichloroethene(Total)	U	U	U	U	5
67663	Chloroform	3	9	11	13	5
107062	1,2-Dichloroethane	U	U	U	U	5
78933	2-Butanone	U	U	U	U	10
71556	1,1,1-Trichloroethane	U	0.3	1	6	5
56235	Carbon Tetrachloride	U	U	U	1	5
108054	Vinyl Acetate	U	U	U	U	10
75274	Bromodichloromethane	U	U	U	U	5
78875	1,2-Dichloropropane	U	U	U	U	5
10061015	cis-1,3-Dichloropropene	U	U	U	U	5
79016	Trichloroethene	U	0.6	0.8	U	5
124481	Dibromochloromethane	U	U	U	U	5
79005	1,1,2-Trichloroethane	U	U	U	U	5
71432	Benzene	U	0.3	U	U	5
10061026	Trans-1,3-Dichloropropene	U	U	U	U	5
75252	Bromoform	U	U	U	U	5
108101	4-Methyl-2-Pentanone	U	U	U	U	10
591786	2-Hexanone	U	0.2	U	U	10
127184	Tetrachloroethene	U	0.2	U	0.3	5
79345	1,1,2,2-Tetrachloroethane	U	U	U	U	5
108883	Toluene	U	U	U	U	5
108907	Chlorobenzene	U	U	U	U	5
100414	Ethylbenzene	U	U	U	U	5
100425	Styrene	U	U	U	U	5
1726	N-Xylene	U	U	U	U	5
172461727	O & P Xylene	U	U	U	U	5
541731	1,3 Dichlorobenzene	U	U	U	U	5
95501	1,2 Dichlorobenzene	U	U	U	U	5
106467	1,4 Dichlorobenzene	U	U	U	U	5
1634044	Methyl Tert Butylether	U	U	U	U	5
75694	Trichlorofluoromethane	U	0.8	0.7	0.9	5
71366	N-Butanol	U	U	U	U	5
110758	2-Chloroethyl Vinyl Ether	U	U	U	U	5

* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

RESULTS

FOR

WATER SAMPLES

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET (WATER)

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/1/90

Dilution factor		N/A	N/A	N/A	
Lab Identification		VBLK	3004	3005	
Client Identification			TB10	FB11	
File Identification		785	787	788	
CAS NO.	COMPOUND	ug/L	ug/L	ug/L	MDL
74873	Chloromethane	U	U	U	10
74839	Bromomethane	U	U	U	10
75014	Vinyl Chloride	U	U	U	10
75003	Chloroethane	U	U	U	10
75092	Methylene Chloride	2	7	7	5
67641	Acetone	33	170	88	10
75150	Carbon Disulfide	U	U	U	5
75354	1,1-Dichloroethene	U	U	U	5
75343	1,1-Dichloroethene	U	U	U	5
540590	1,2-Dichloroethene(Total)	U	U	U	5
67663	Chloroform	3	19	19	5
107062	1,2-Dichloroethane	U	U	U	5
78933	2-Butanone	U	U	U	10
71556	1,1,1-Trichloroethane	U	U	U	5
56235	Carbon Tetrachloride	U	U	U	5
108054	Vinyl Acetate	U	U	U	10
75274	Bromodichloromethane	U	U	U	5
78875	1,2-Dichloropropane	U	U	U	5
10061015	cis-1,3-Dichloropropene	U	U	U	5
79016	Trichloroethene	U	U	U	5
124481	Dibromochloromethane	U	U	U	5
79005	1,1,2-Trichloroethane	U	U	U	5
71432	Benzene	U	U	U	5
10061026	Trans-1,3-Dichloropropene	U	U	U	5
75252	Bromoform	U	U	U	5
108101	4-Methyl-2-Pentanone	U	U	U	10
591786	2-Hexanone	U	U	U	10
127184	Tetrachloroethene	U	U	U	5
79345	1,1,2,2-Tetrachloroethane	U	U	U	5
108883	Toluene	U	U	U	5
108907	Chlorobenzene	U	U	U	5
100414	Ethylbenzene	U	U	U	5
100425	Styrene	U	U	U	5
1726	M-Xylene	U	U	U	5
172461727	O & P Xylene	U	U	U	5
541731	1,3 Dichlorobenzene	U	U	U	5
95501	1,2 Dichlorobenzene	U	U	U	5
106467	1,4 Dichlorobenzene	U	U	U	5
1634044	Methyl Tert Butylether	U	U	U	5
75694	Trichlorofluoromethane	U	U	U	5
71366	N-Butanol	U	U	U	5
110758	2-Chloroethyl Vinyl Ether	U	U	U	5

*Minimum Detection Limit (MDL) = Lower Limits of Detection X DF

LIBRARIES

ABK000682

946010299

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: VBLK
CLIENT SAMPLE NO:
FILE NO: 764

DATE: 08/02/90

Number of TICS found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/L	SCAN
1.	76131	ETHANE,1,1,2-TRICHLORO-1,2,2-TRIFLUORO	11:29	20	459
2.	96140	PENTANE,3-METHYL	18:13	10	728
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: 3014
CLIENT SAMPLE NO: PE2
FILE NO: 769

DATE: 08/02/90

Number of TICS found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/L	SCAN
1.		NONE FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: VBLK
CLIENT SAMPLE NO:
FILE NO: 775

DATE: 08/02/90

Number of TICS found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/L	SCAN
1.		NONE FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: 3010
CLIENT SAMPLE NO: PE1
FILE NO: 777

DATE: 08/02/90

Number of TICS found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/Kg	SCAN
1.	110543	HEXANE (D/T)	18:15	8	729
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

20

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: 3011
CLIENT SAMPLE NO: PE3A
FILE NO: 778

DATE: 08/02/90

Number of TICS found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/Kg	SCAN
1.		NONE FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

946010304

ABK000687

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

21

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: 3017
CLIENT SAMPLE NO: PE3
FILE NO: 779

DATE: 08/02/90

Number of TICS found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/Kg	SCAN
1.	96140	PENTANE, 3-METHYL	35:27	9	1416
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: VBLK
CLIENT SAMPLE NO:
FILE NO: 785

DATE: 08/02/90

Number of TICS found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/L	SCAN
1.		NONE FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

946010306

ABK000689

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: 3004
CLIENT SAMPLE NO: TB10
FILE NO: 787

DATE: 08/02/90

Number of TICS found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/L	SCAN
1.	76131	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUROR	11:26	19	457
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: HWEC
WHIPPANY PAPER BOARD

LAB SAMPLE NO: 3005
CLIENT SAMPLE NO: FB11
FILE NO: 788

DATE: 08/02/90

Number of TICS found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC ug/L	SCAN
1.	76131	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUROR	11:26	19	457
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

RAW DATA

FOR

SOIL SAMPLES

26

DATA FOR

SAMPLE VBLK.

26

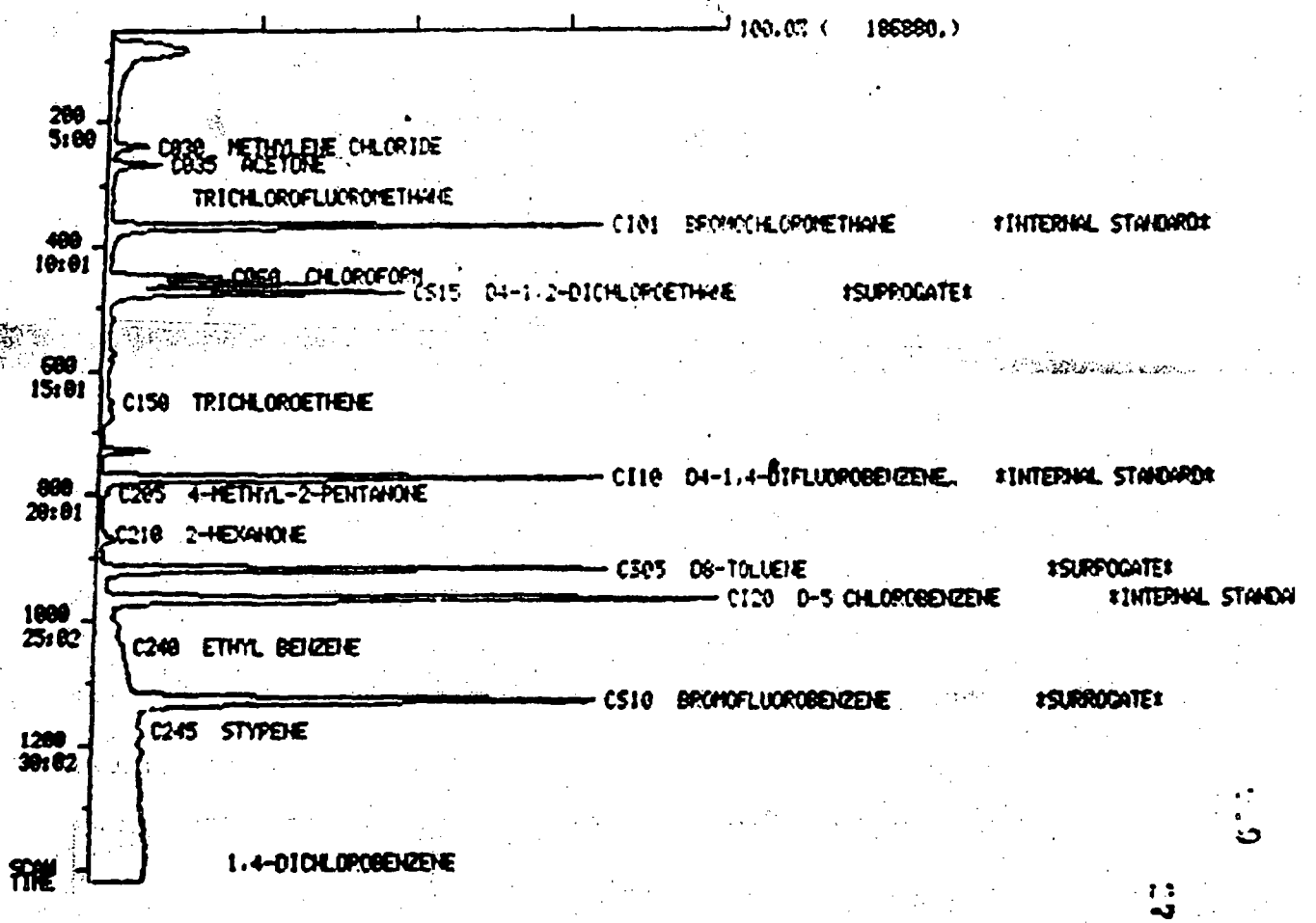
DATA FOR

SAMPLE VBLK.

946010310

DATA FROM FILE: 764 SCANS 50 TO 1418 ACQUIRED: 07/13/90 13:24:00
CALI: 764 03

SAMPLE: BLK
COMDS.:



946010311

ABK000694

Quantitation Report File 764

Data: 764.TI
07/13/90 13:24:00
Sample: VBLK
Conds.:
Formula: Instrument: FINN Weight: 0.000
Submitted by: JFK Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40	[illegible]	M-XYLENE	
41	[illegible]	O- & P-XYLENE	
42	[illegible]	1,3-DICHLOROBENZENE	
43	[illegible]	1,2-DICHLOROBENZENE	
44	[illegible]	1,4-DICHLOROBENZENE	
45	[illegible]	METHYL TERT BUTYLETHER	
[illegible]	[illegible]	[illegible]	

946010312

ABK000695

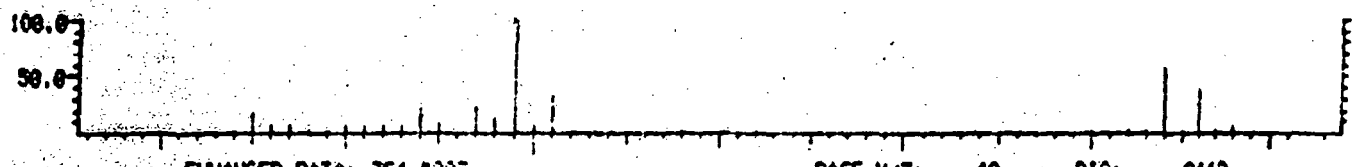
No	Name
48	2-CHLOROETHYL VINYL ETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	365	9:08	1	1.000	A BB	121434	50.000 UG/KG	15.51
2	114	771	19:18	2	1.000	A BB	419022	50.000 UG/KG	15.51
3	117	965	24:09	3	1.000	A BB	383945	50.000 UG/KG	15.51
4	65	473	11:50	1	1.296	A BB	210809	45.501 UG/KG	14.12
5	98	917	22:57	3	0.950	A BB	383677	47.055 UG/KG	14.60
6	95	1125	28:10	3	1.166	A BB	308904	47.867 UG/KG	14.85
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	237	5:56	1	0.649	A BB	14757	2.791 UG/KG	0.87
12	43	265	6:38	1	0.726	A BB	69163	24.288 UG/KG	7.54
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	447	11:11	1	1.225	A BB	47564	4.801 UG/KG	1.49
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

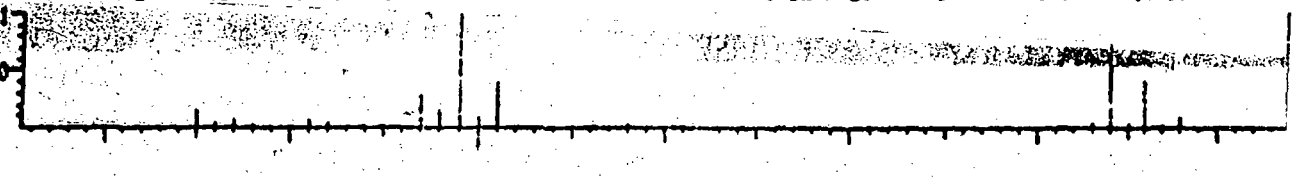
946010313

DATA FILE: 764 #237 LIBRARY FILE: US #11
TARGET COMPOUND COMPARISON CALI: 764 #3
COMPOUND: C030 METHYLENE CHLORIDE

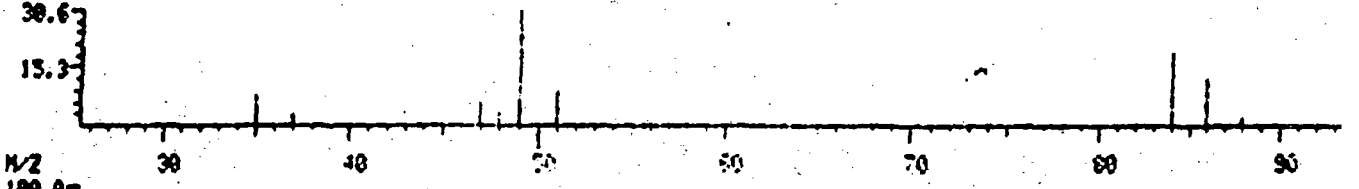
RAW DATA: 764 #237 BASE M/Z: 49 RIC: 12464.
07/13/90 13:24

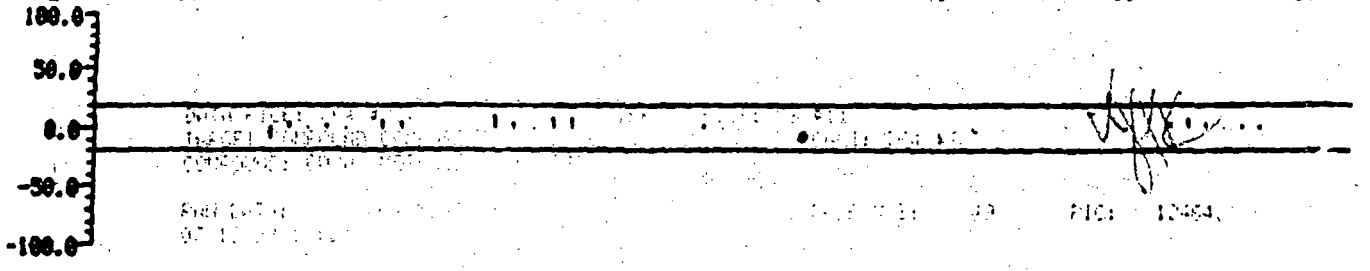


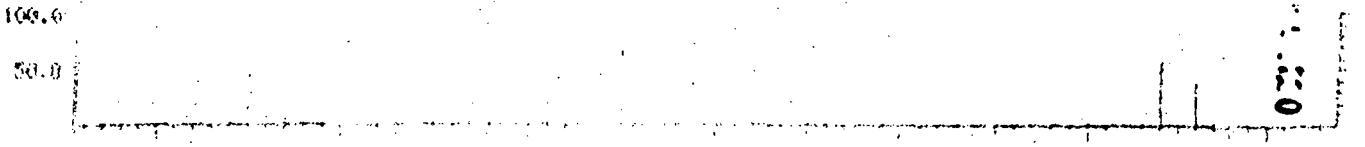
ENHANCED DATA: 764 #237 BASE M/Z: 49 RIC: 8448.



LIBRARY FILE: US #11 BASE M/Z: 49 RIC: 2996.





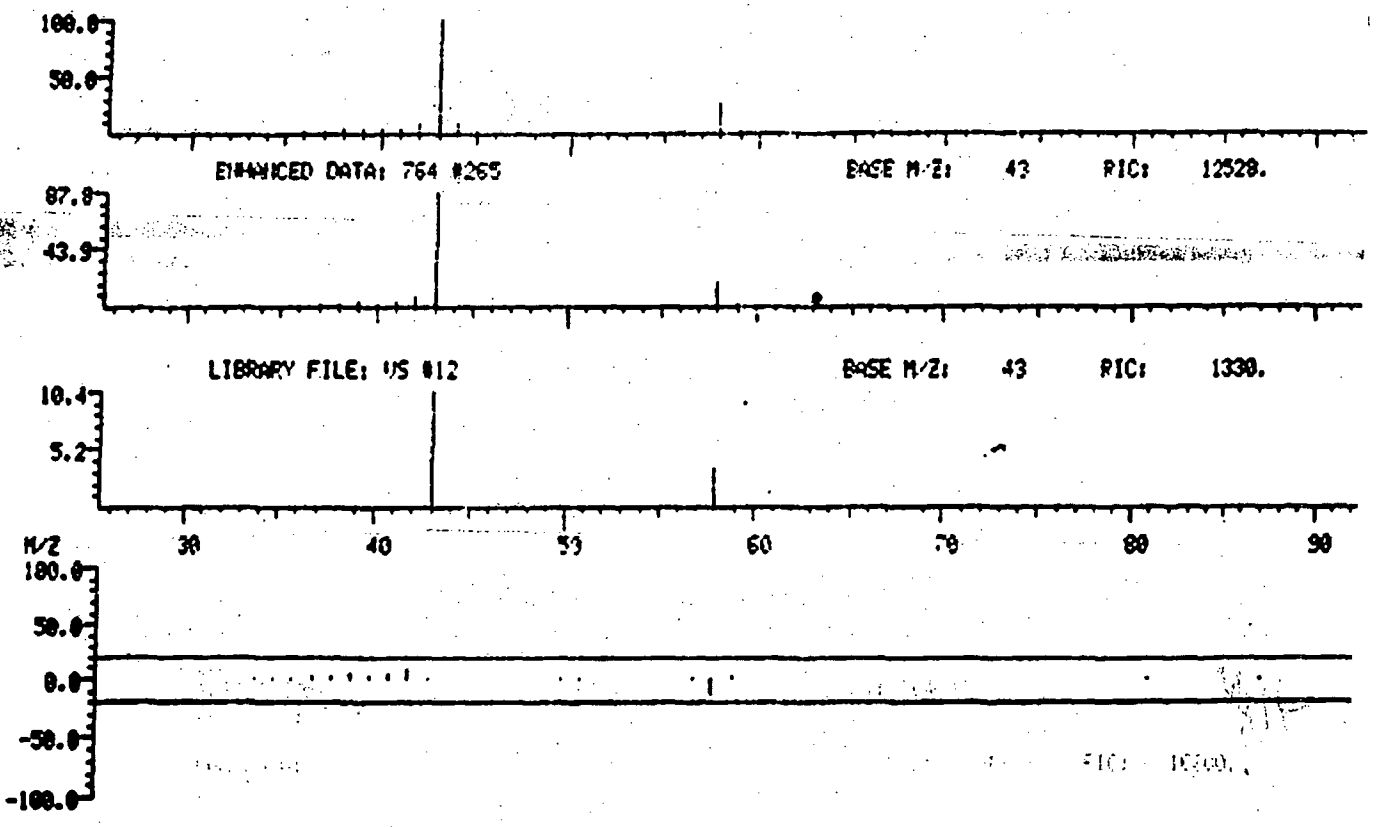


946010314

ABK000697

DATA FILE: 764 #265 LIBRARY FILE: US #12
TARGET COMPOUND COMPARISON CAL1: 764 #3
COMPOUND: C035 ACETONE

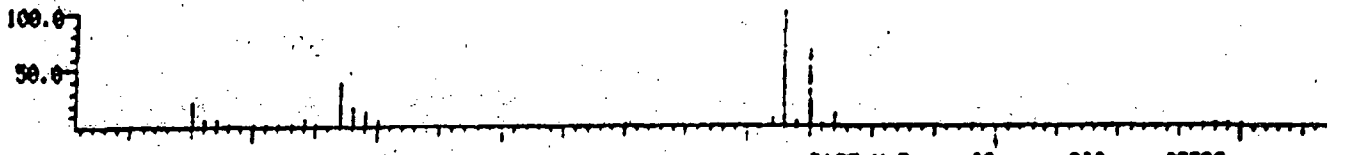
RAW DATA: 764 #265 BASE M/Z: 43 RIC: 16800.
07/13/90 13:24



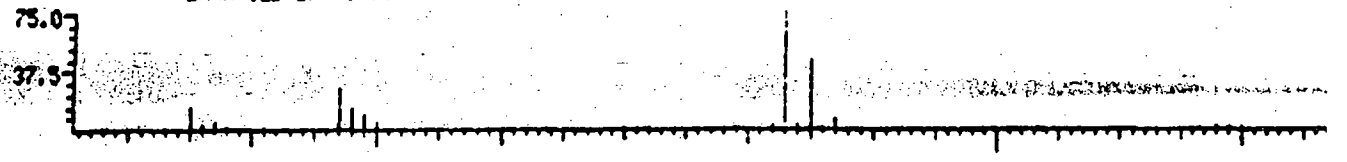
946010315

DATA FILE: 764 #447 LIBRARY FILE: US #17
TARGET COMPOUND COMPARISON CALI: 764 #3
COMPOUND: C050 CHLOROFORM

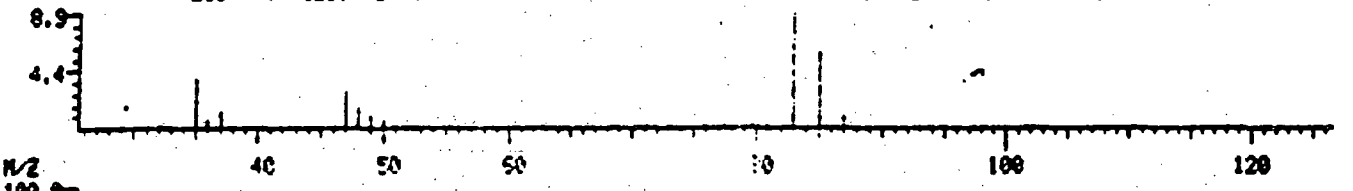
RAW DATA: 764 #447 BASE M/Z: 83 RIC: 36736.
07/13/90 13:24

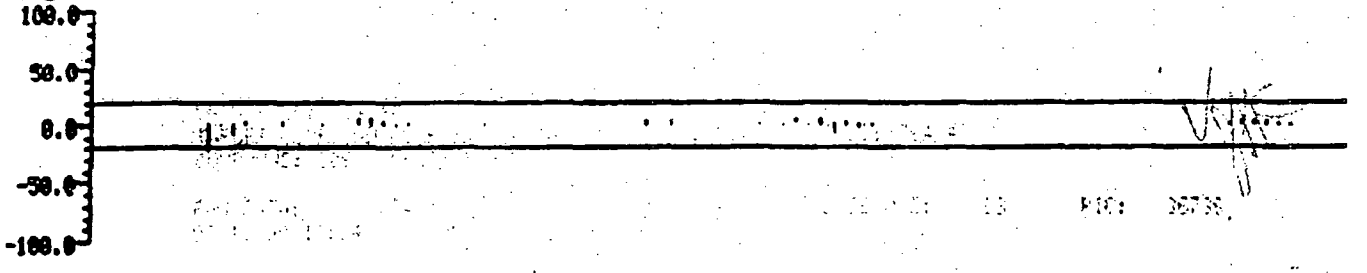


ENHANCED DATA: 764 #447 BASE M/Z: 83 RIC: 25536.



LIBRARY FILE: US #17 BASE M/Z: 83 RIC: 3048.





946010316

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/18/90 11:00:31

DATA FILE: 764

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	10
MI-TABLE ENTRIES:	528
SCAN TOLERANCE :	2
MIN. RIC HT. [%]:	10
FIRST SCAN :	21
LAST SCAN :	1450
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYVV
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	VL
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING:

TOTAL PEAKS	<----REJECT PEAKS----> < 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
12	0	0	2	8	0	10	2

TIC PROCESSING:

NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME (BEFORE TIC THRESHOLD)
1	459	916	999	186	ETHANE, 1,1,2-TRICHLORO-1,2,2-
2	728	887	938	86	PENTANE, 3-METHYL-

ABK000700

946010317

Quantitation Report File: 764

Data: 764.TI
07/13/90 13:24:00
Sample: VBLK
Conds.
Formula: Instrument: FINN Weight: 0.000
Submitted by: JFK Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	CAS #	Name	
1	0-00-0	CI01 BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	0-00-0	CI10 D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	0-00-0	CI20 D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	
5	96-14-0	PENTANE, 3-METHYL-	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	365	9:08	1	1.000	A BB	1037240	50.000 UG/ML	28.57
2	TOT	771	19:18	2	1.000	A BB	859119	50.000 UG/ML	28.57
3	TOT	965	24:09	3	1.000	A BB	1288290	50.000 UG/ML	28.57
4	TOT	459	11:29	1	1.258	A VB	392192	18.905	10.80
5	TOT	728	18:13	2	0.944	A BB	104418	6.077	3.47

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	0.85	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	14:00	1.38	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	21:47	1.11	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4					18.91	1.00	18.905	1.000	18.91
5					6.00	1.00	6.077	1.000	6.08

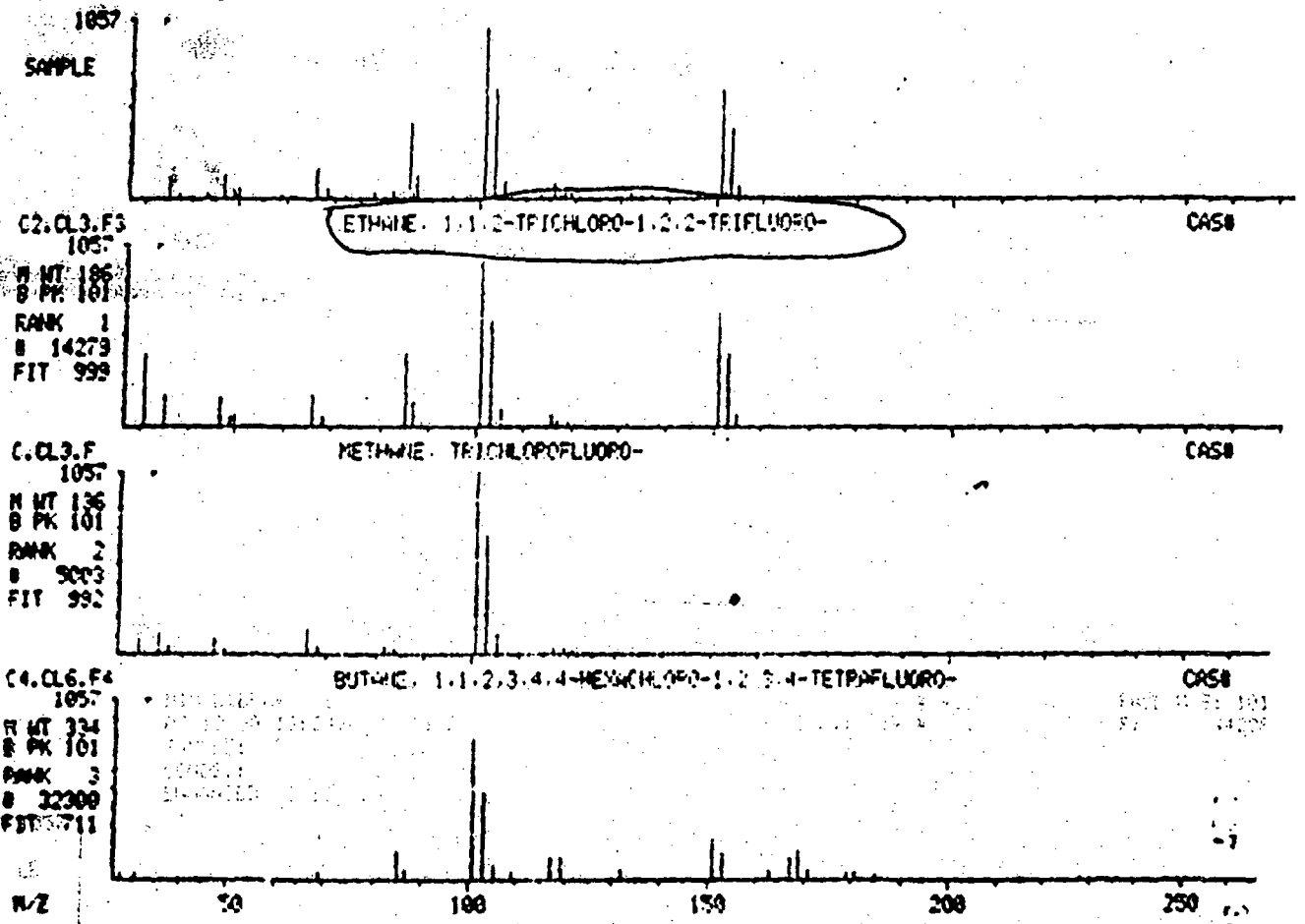
ABK000701

946010318

MID LIBRARY SEARCH (LIBRARIES)
07/13/90 13:24:00 + 11:23
SAMPLE: UBLK
COMOS.:
ENHANCED (S 156 2N 0T)

DATA: 764 # 459
CALI: 764 # 3

BASE M/Z: 10
RIC: 4428



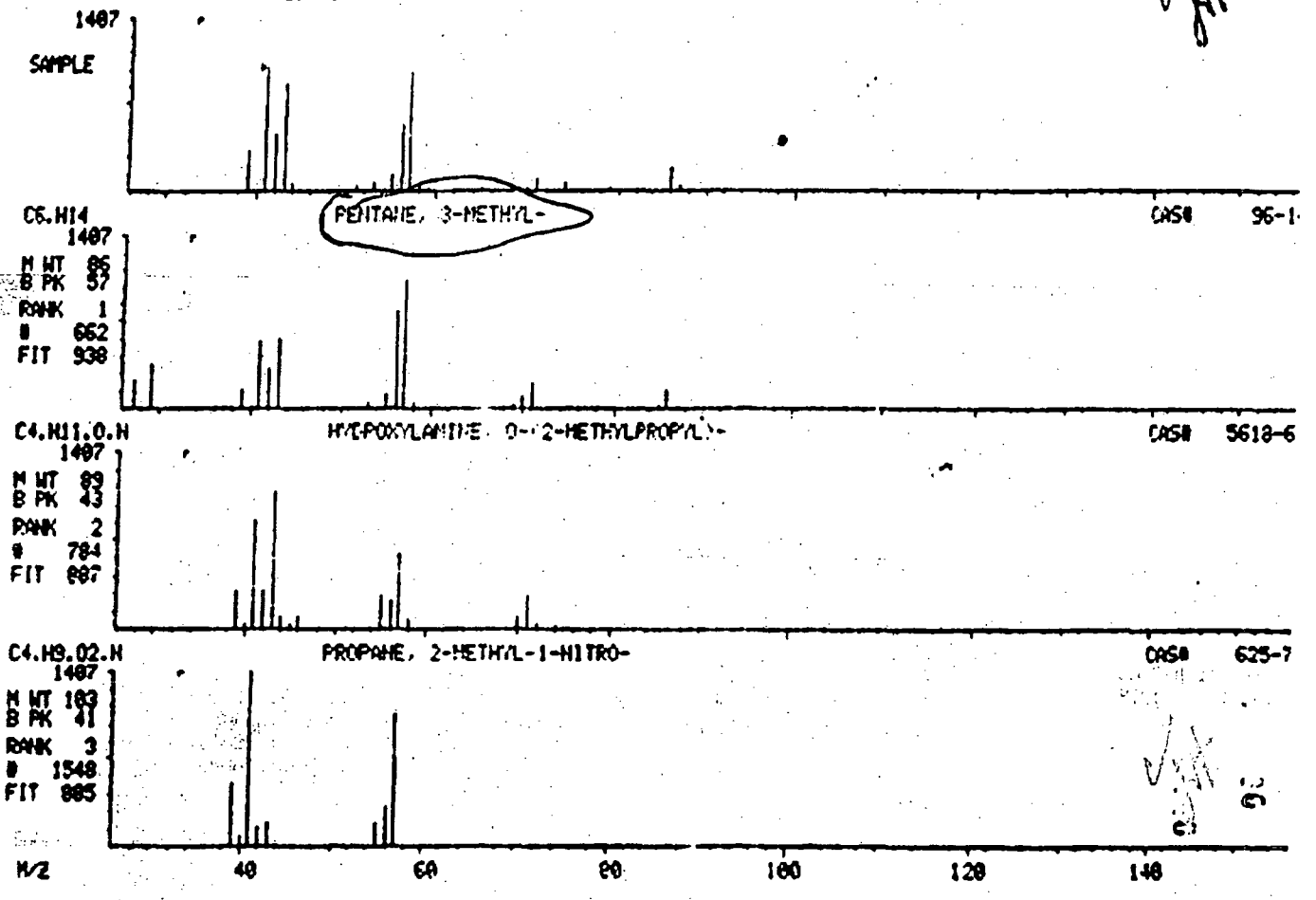
ABK000702

946010319

MID LIBRARY SEARCH (LIBRARIB)
07/13/90 13:24:00 + 18:13
SAMPLE: VBLK
CONDS.:
ENHANCED (5 15B 2N 0T)

DATA: 764 # 728
CALI: 764 # 3

BASE M/Z: 41
RIC: 11856.



946010320

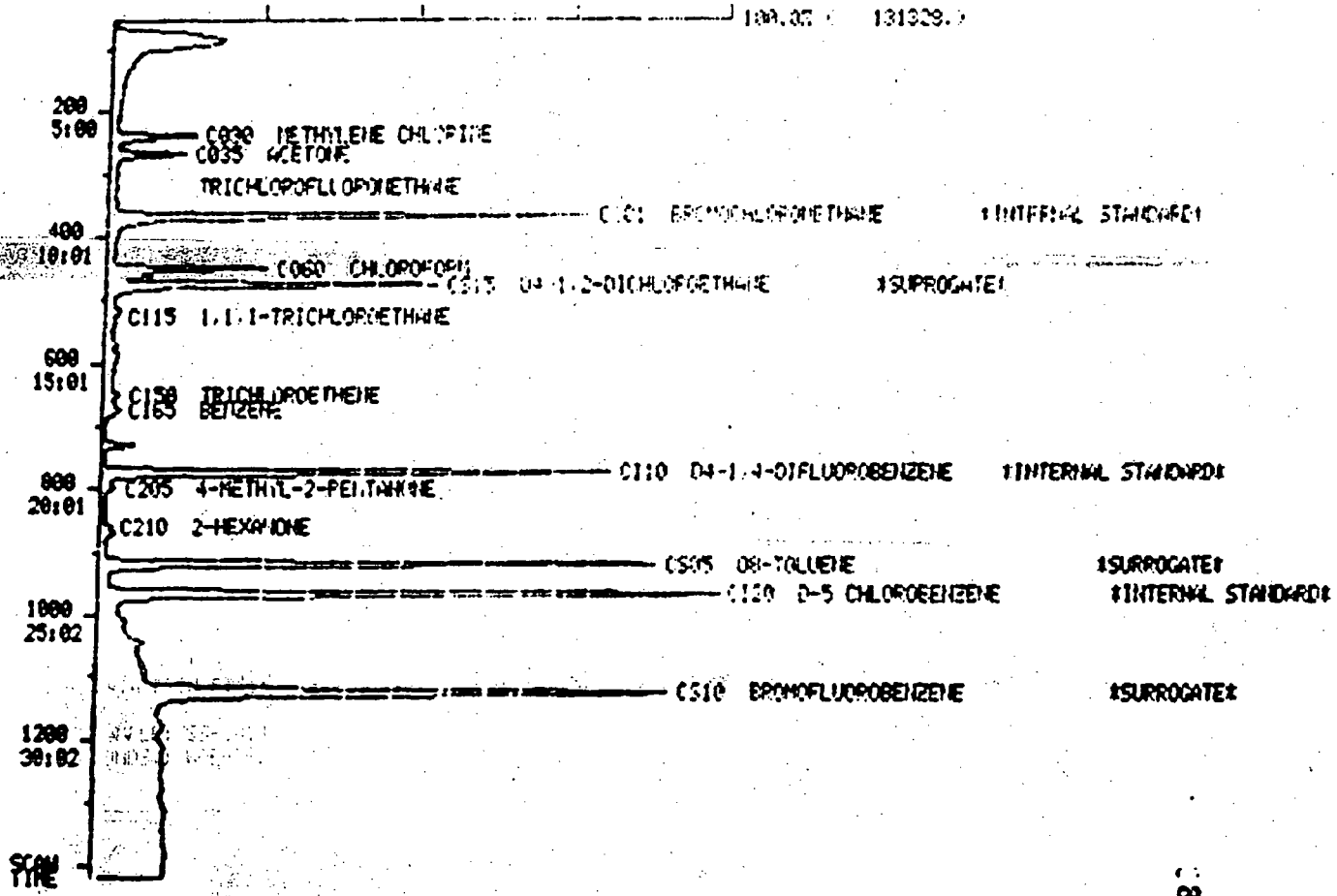
ABK000703

DATA FOR

SAMPLE PE2

DATA FROM FILE: 769

SAMPLE: SS-0014
CONDS.: WPS-PE2



ABK000705

946010322

Quantitation Report File 769

Date: 769.TI
07/13/90 18:30:00
Sample: SS-3014
Conds.: WPB-PE2
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct No

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole RL

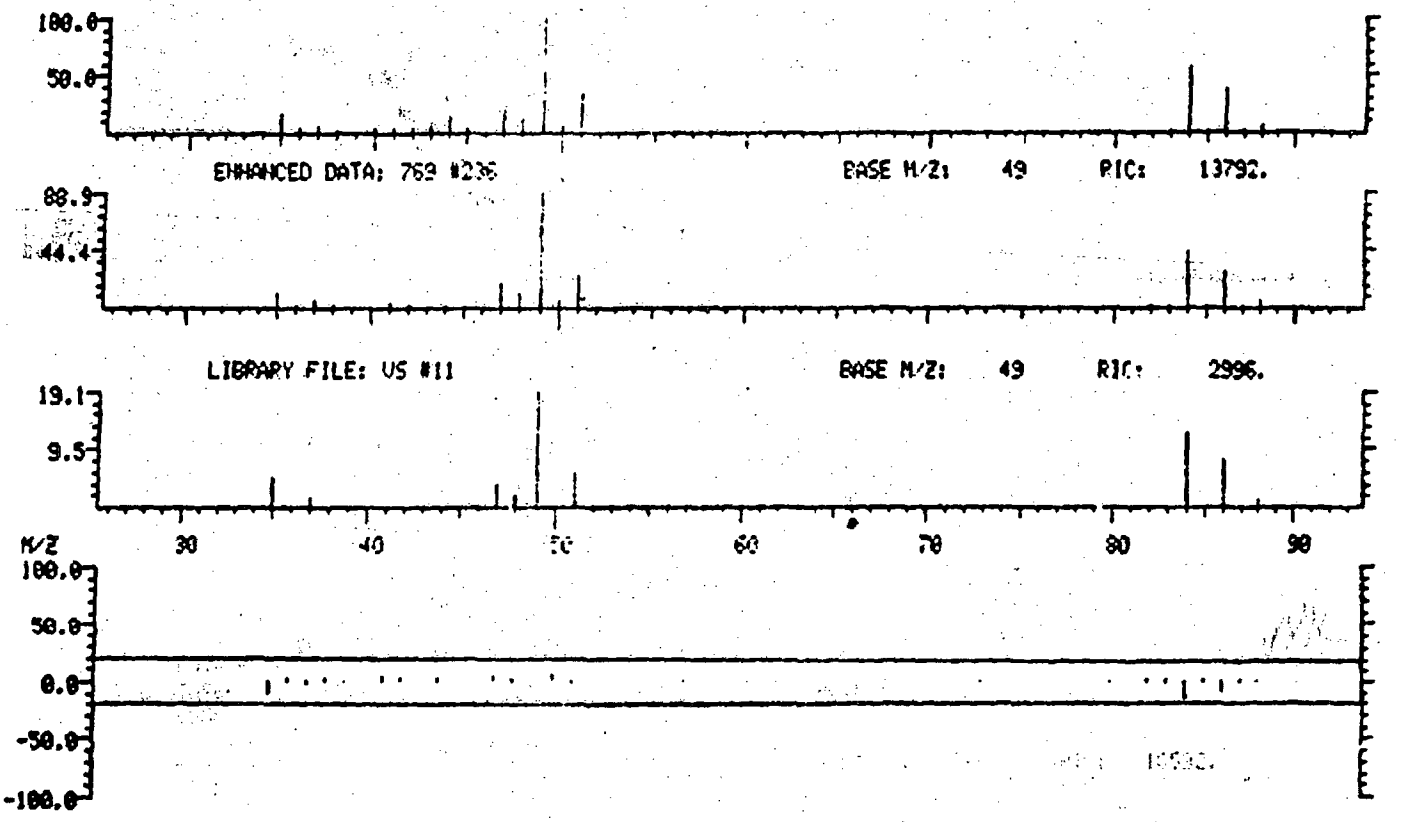
No	Name		
1	C101	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	C110	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	C120	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	

No	Name
48	2-CHLOROETHYL VINYL ETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	364	9:07	1	1.000	A BB	82568.	50.000 UG/KG	13.67
2	114	771	19:18	2	1.000	A BB	284077.	50.000 UG/KG	13.67
3	117	964	24:08	3	1.000	A BB	262056.	50.000 UG/KG	13.67
4	65	472	11:49	1	1.297	A BB	164244.	52.138 UG/KG	14.26
5	98	917	22:57	3	0.951	A BB	291048.	52.298 UG/KG	14.20
6	95	1124	28:08	3	1.166	A BB	239754.	54.432 UG/KG	14.88
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	236	5:54	1	0.648	A BB	23065.	6.415 UG/KG	1.75
12	43	265	6:38	1	0.728	A BB	68474.	35.365 UG/KG	7.67
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	447	11:11	1	1.228	A BB	76360.	11.335 UG/KG	3.10
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	795	19:54	3	0.825	A VB	6244.	1.768 UG/KG	0.48
33	43	857	21:27	3	0.889	A BB	3890.	1.391 UG/KG	0.38
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	101	317	7:56	1	0.871	A BB	1801.	0.592 UG/KG	0.16
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 769 #236 LIBRARY FILE: US #11
TARGET COMPOUND COMPARISON CAL1: 769 #3
COMPOUND: C030 METHYLENE CHLORIDE

RAW DATA: 769 #236 BASE M/Z: 49 RIC: 18592.
07/13/90 18:30

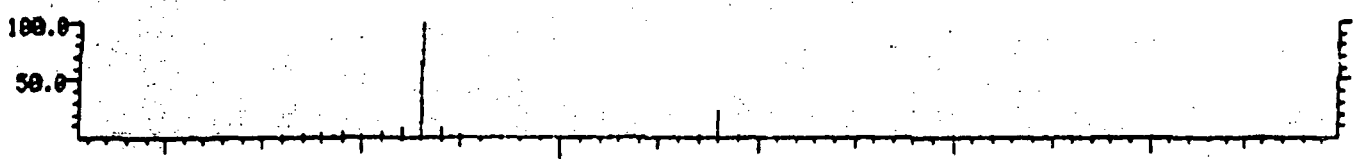


DATA FILE: 769 #265
TARGET COMPOUND COMPARISON
COMPOUND: C035 ACETONE

LIBRARY FILE: US #12
CALI: 769 #3

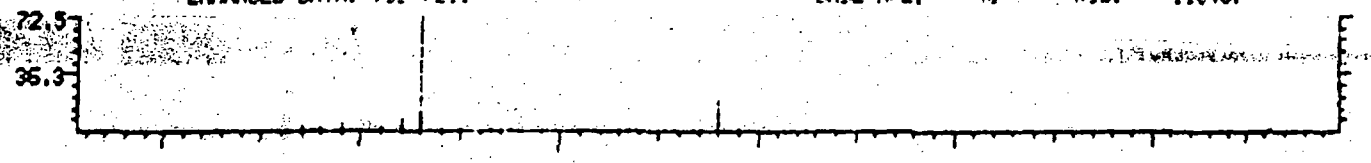
RAW DATA: 769 #265
07/13/90 18:30

BASE M/Z: 43 RIC: 16512.



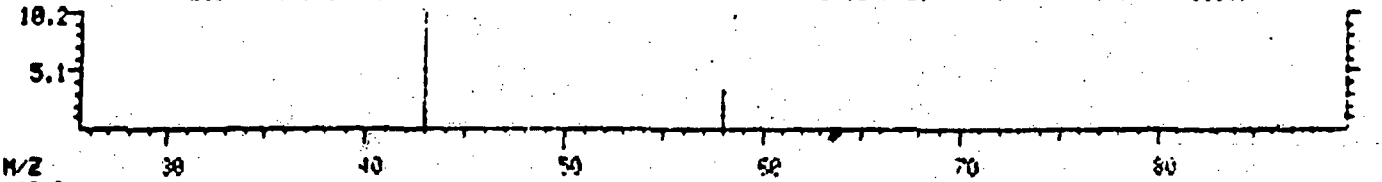
ENHANCED DATA: 769 #265

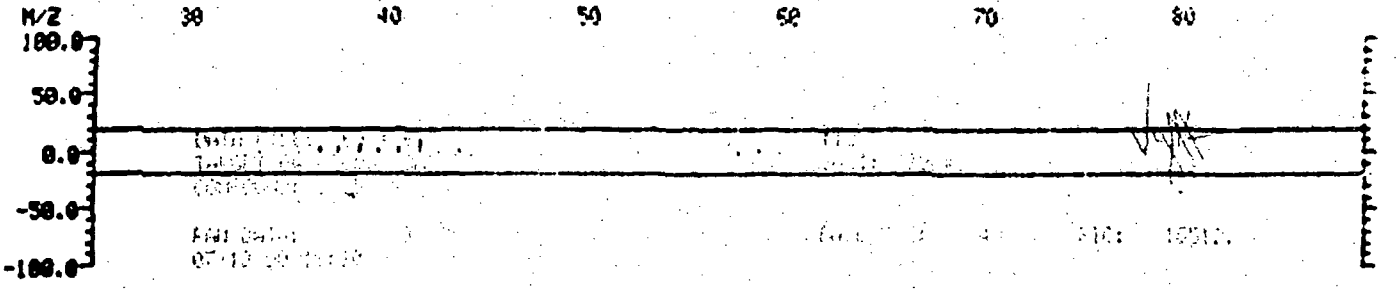
BASE M/Z: 43 RIC: 11648.



LIBRARY FILE: US #12

BASE M/Z: 43 RIC: 1330.



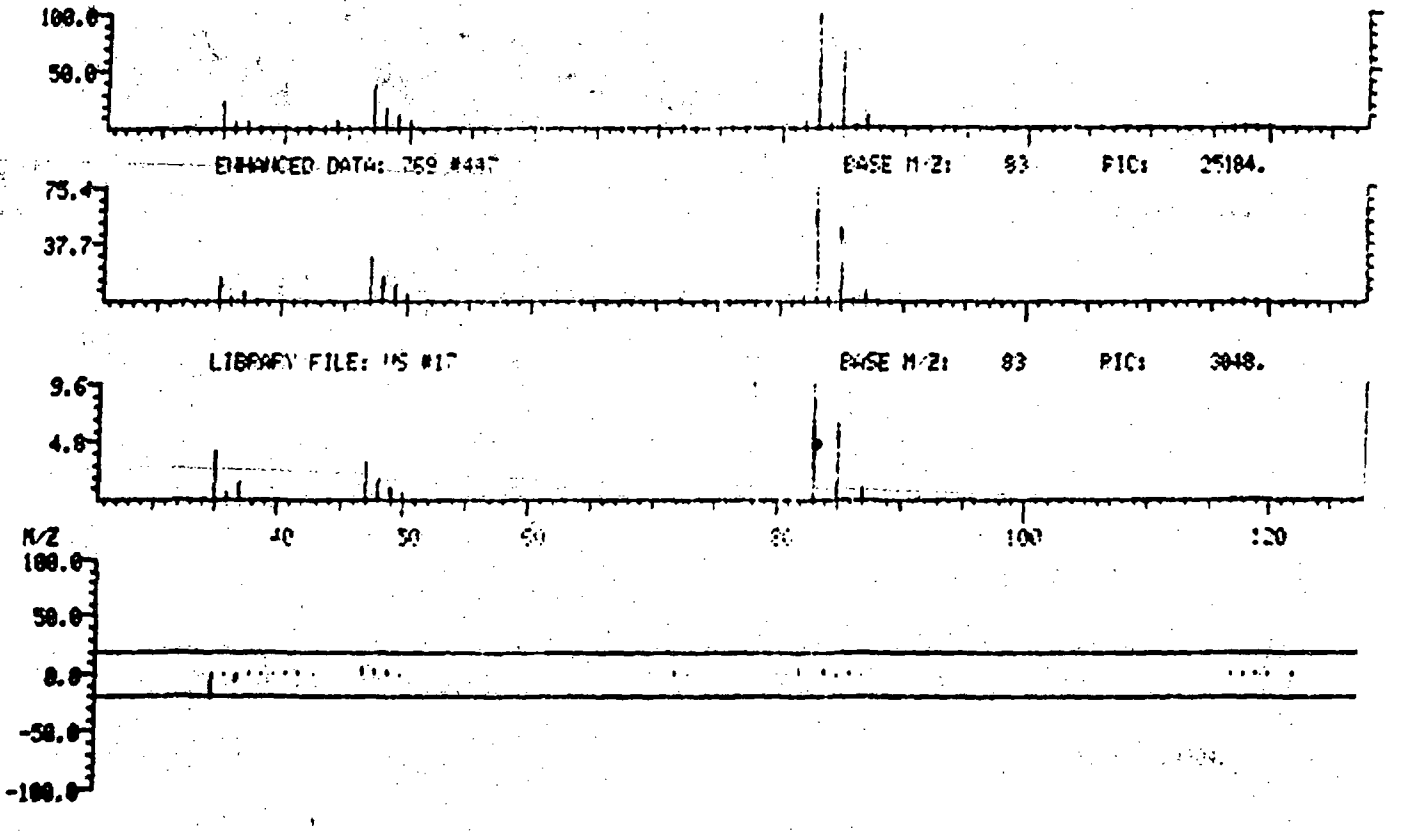


ABK000709

946010326

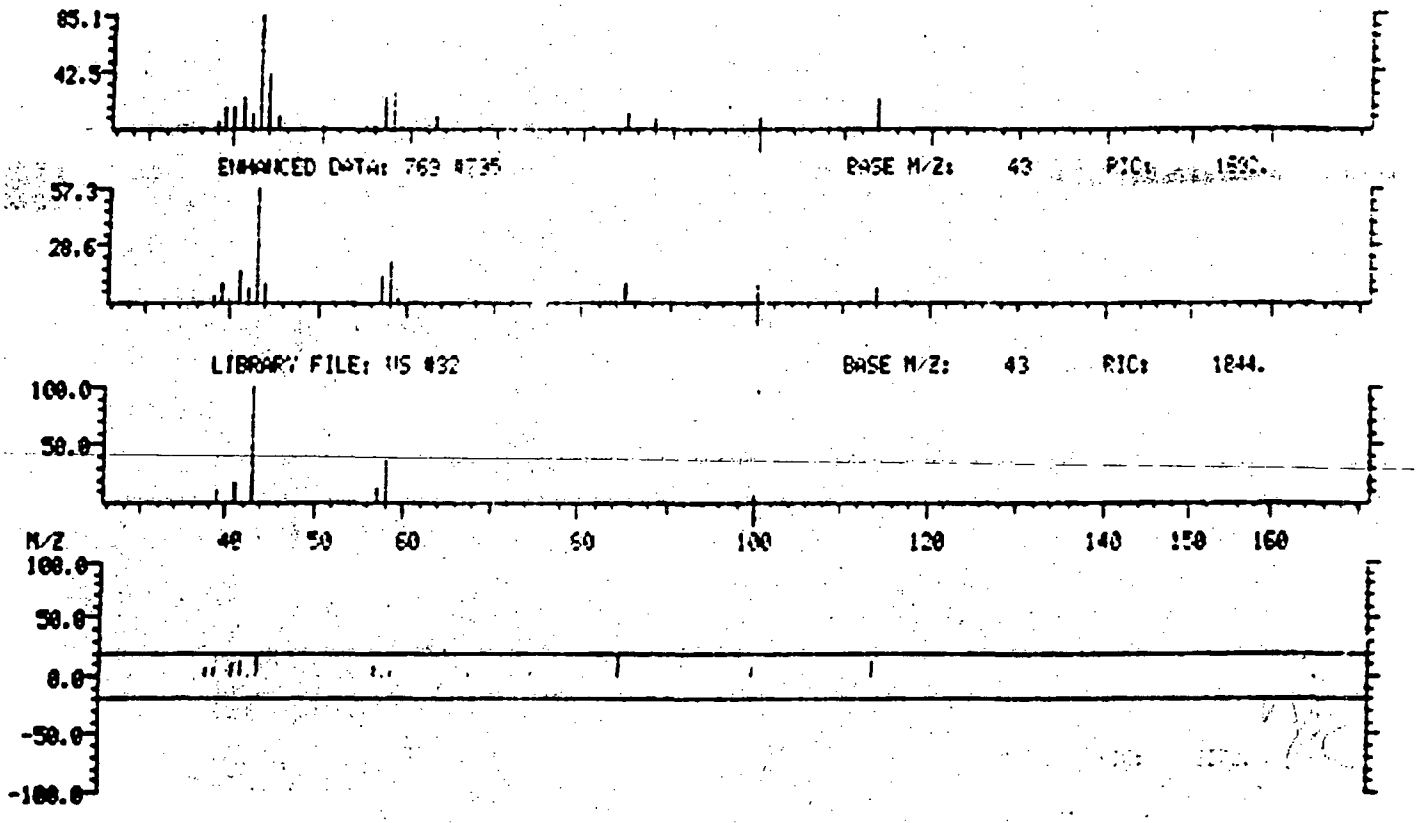
DATA FILE: 769 #447 LIBRARY FILE: US #17
TARGET COMPOUND COMPARISON CALI: 769 #3
COMPOUND: C060 CHLOROFORM

RAW DATA: 769 #447 BASE M/Z: 83 PIC: 34384.
07/13/90 18:30



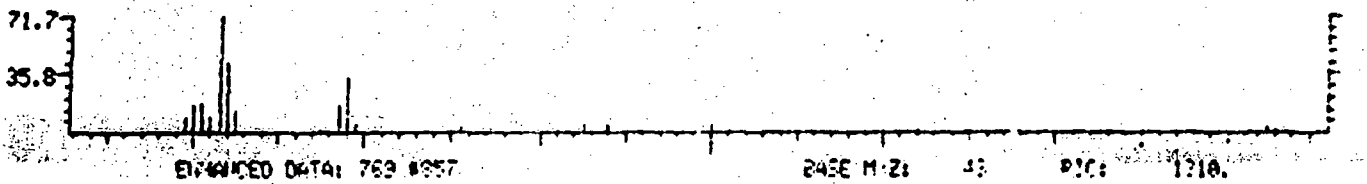
DATA FILE: 769 #735 LIBRARY FILE: US #32
TARGET COMPOUND COMPARISON CALI: 769 #3
COMPOUND: C205 4-METHYL-2-PENTANONE

RAW DATA: 769 #735 BASE M/Z: 43 RIC: 3272.
07/13/90 12:30

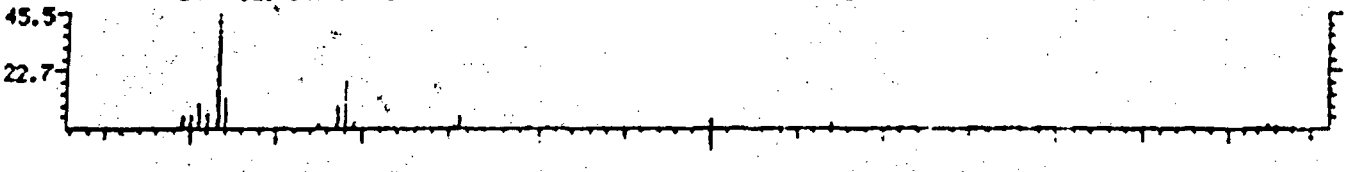


DATA FILE: 769 #357 LIBRARY FILE: US #33
TARGET COMPOUND COMPARISON CALI: 769 #3
COMPOUND: C210 2-HEXANONE

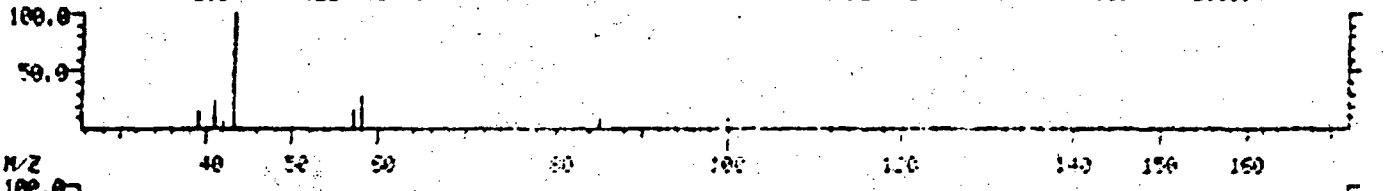
RAW DATA: 769 #357 BASE M/Z: 43 PIC: 2592.
07/13/90 18:30

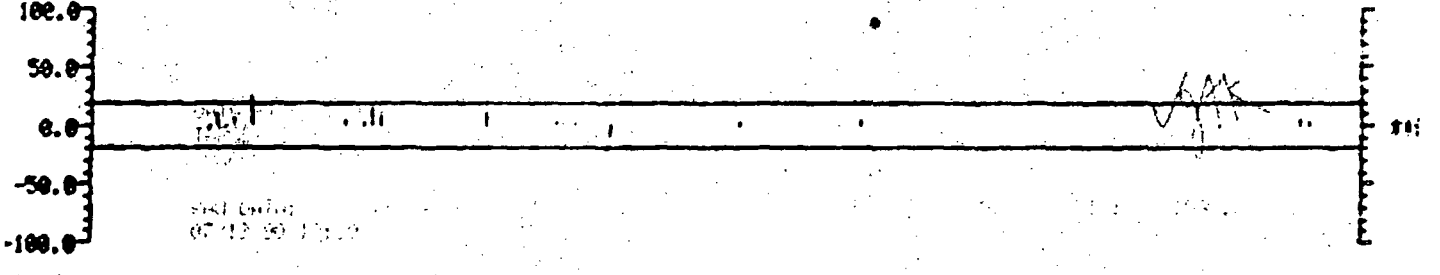


ENHANCED DATA: 769 #357 BASE M/Z: 43 PIC: 1210.



LIBRARY FILE: US #32 BASE M/Z: 43 PIC: 2056.



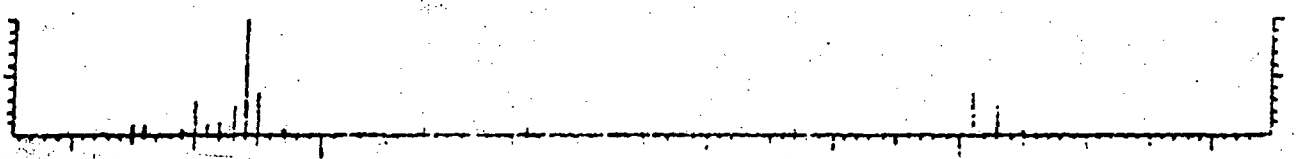


ABK000712

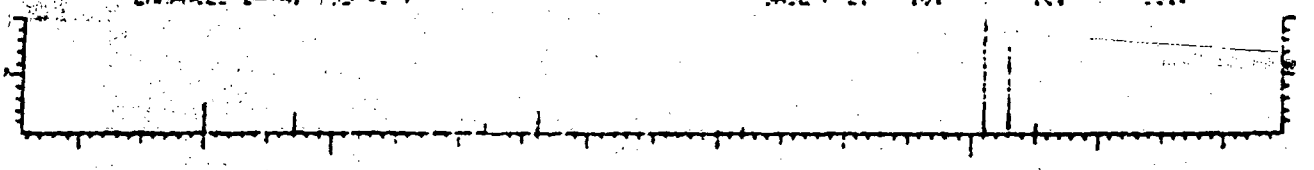
946010329

DATA FILE: 769 #317 LIBRARY FILE: US #46
TARGET COMPOUND COMPARISON CALI: 769 #3
COMPOUND: TRICHLOROFLUOROMETHANE

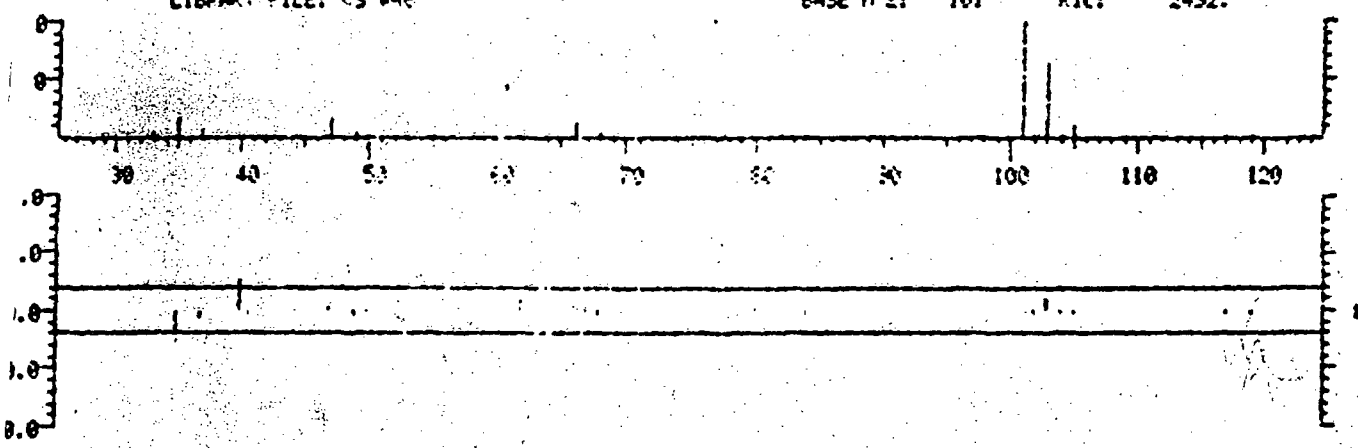
RAW DATA: 769 #317 BASE M/Z: 44 RIC: 2108.
07/13/90 18:30



ENHANCED DATA: 769 #317 BASE M/Z: 101 RIC: 551.



LIBRARY FILE: US #46 BASE M/Z: 101 RIC: 2432.



PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/18/90 11:31:22

DATA FILE 769

FILTER SCAN PARAMETERS	
MAX. NUMBER TICS	10
II-TABLE ENTRIES	528
SCAN TOLERANCE	2
MIN. RIC HT. [%]	10
FIRST SCAN	21
LAST SCAN	1450
TIC THRESHOLD	600

METHOD LIBRARY & LISTS	
TIC I.S. LIBRARY:	LIBRARYVM
NBS SEARCH PROC	SERLIB
PEAK FINDER PROC	VOME
TCA I.S. LL	VM
FILE NAME LIST	TCAREF2

TARGET COMPOUND ANALYSIS

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
15	3	10

FILTER PROCESSING

TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	MIN RIC HT	SCAN TOL	MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
	REJECT PEAKS						
10	0	0	1	9	0	10	0

NO UNKNOWN PEAKS TO BE IDENTIFIED

ABK000714

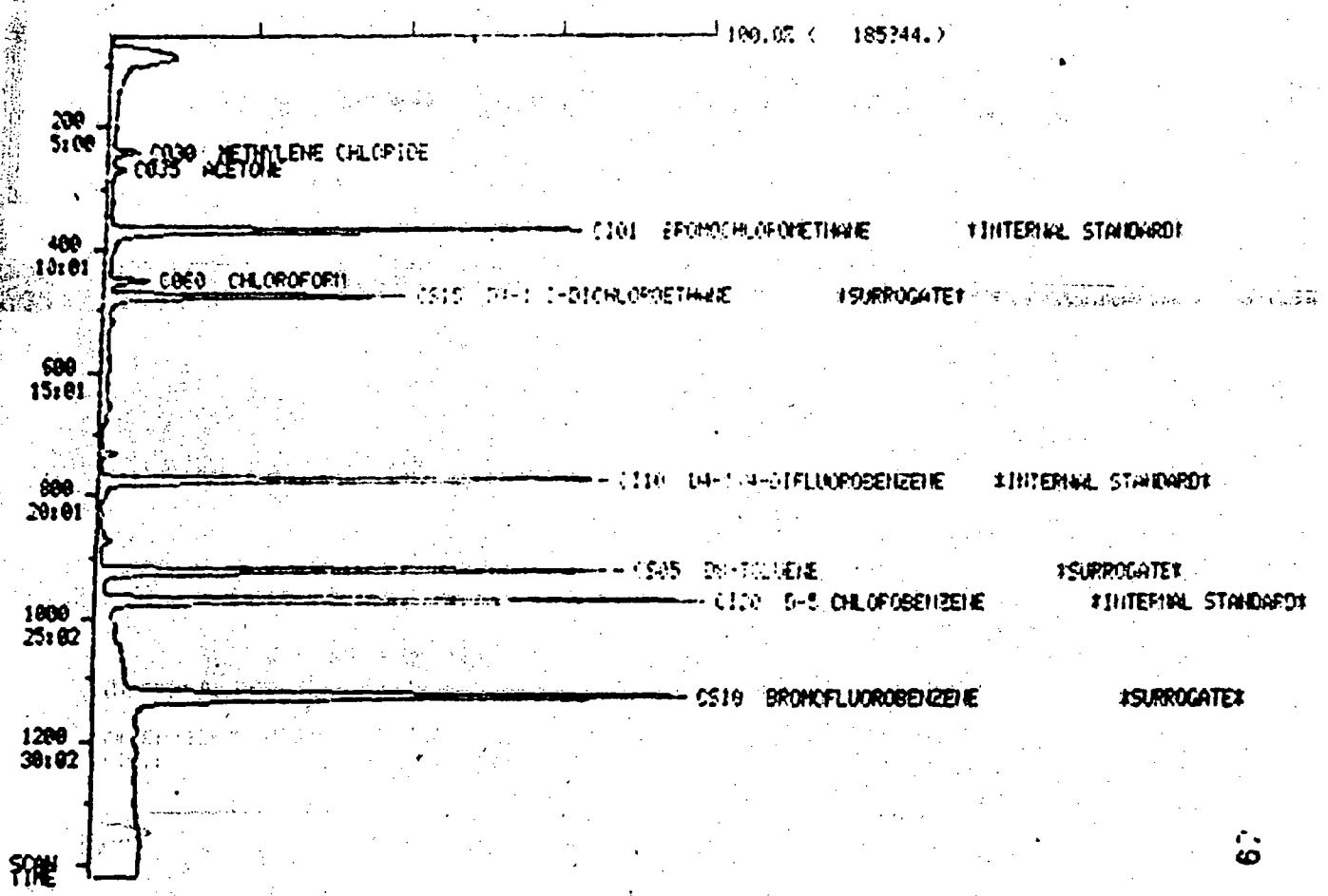
946010331

DATA FOR

SAMPLE VBiK

DATA FROM FILE: 775 [illegible] 50 TO 1410 ACQUIRED: 07/16/90 12:18:00
[illegible]: 775 #3

SAMPLE: [illegible] HEATED
COMMS.:



67

ABK000716

946010333

Quantitation Report File 775

50

Data: 775.TI
07/16/90 12:18:00
Sample: VBLK HEATED
Conds.:
Formula: Instrument FINN Weight 0.000
Submitted by: JFK Analyst JFK Acct No.:

AMOUNT=AREA * PEF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole RL

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	DB-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	

ABK000717

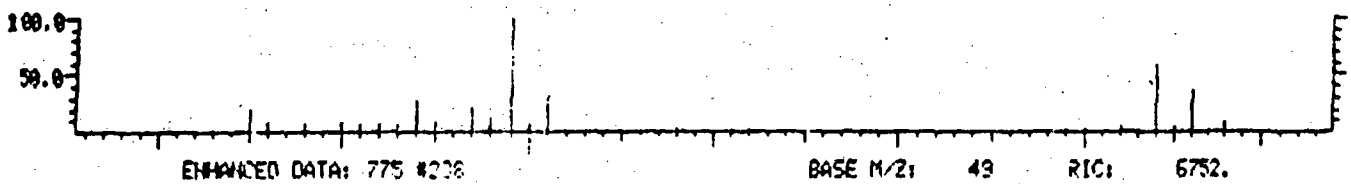
946010334

No	Name
48	2-CHLOROETHYL VINYL ETHER

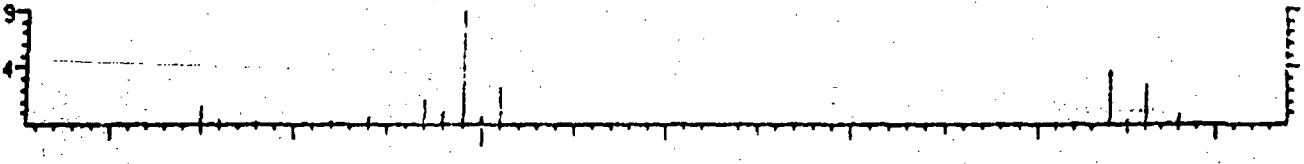
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	366	9:10	1	1.000	A BB	115783	50.000 UG/KG	15.61
2	114	773	19:21	2	1.000	A BB	418555	50.000 UG/KG	15.61
3	117	966	24:11	3	1.000	A BB	380214	50.000 UG/KG	15.61
4	65	474	11:52	1	1.295	A BB	223731	50.647 UG/KG	15.81
5	98	919	23:00	2	0.951	A BB	396418	49.095 UG/KG	15.33
6	95	1126	28:11	3	1.166	A BB	379683	59.412 UG/KG	18.55
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	238	5:57	1	0.650	A BB	10603	2.103 UG/KG	0.66
12	43	266	6:39	1	0.727	A BB	16657	6.135 UG/KG	1.92
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	63	448	11:13	1	1.2[illegible]4	A BB	28112	2.976 UG/KG	0.93
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 775 #238 LIBRARY FILE: US #11
TARGET COMPOUND COMPARISON CALI: 775 #3
COMPOUND: C030 METHYLENE CHLORIDE

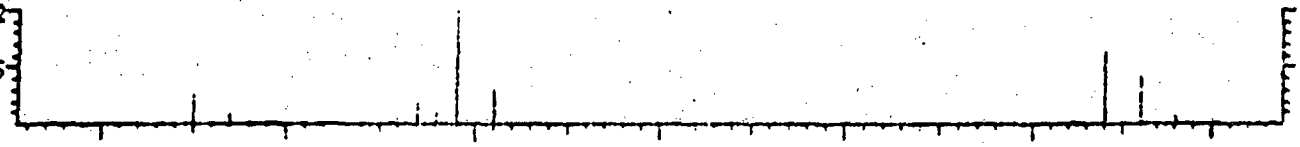
RAW DATA: 775 #238 BASE M/Z: 49 RIC: 10054.
07/16/90 12:18

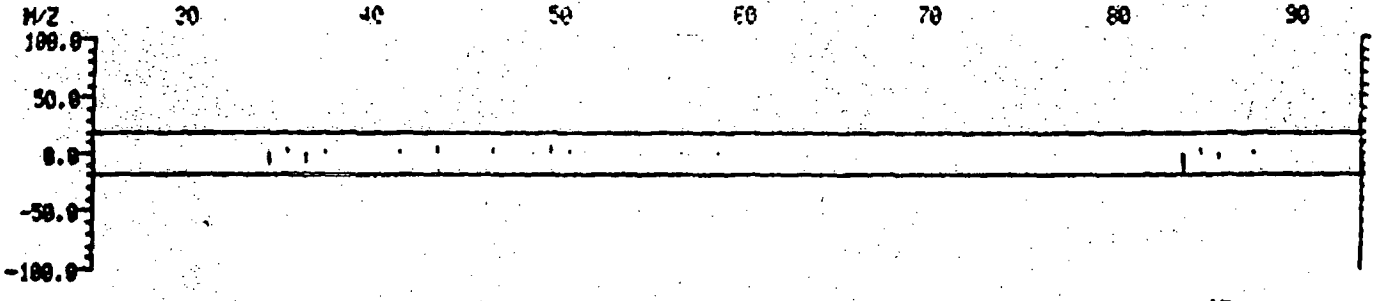


ENHANCED DATA: 775 #238 BASE M/Z: 49 RIC: 6752.



LIBRARY FILE: US #11 BASE M/Z: 49 RIC: 2596.

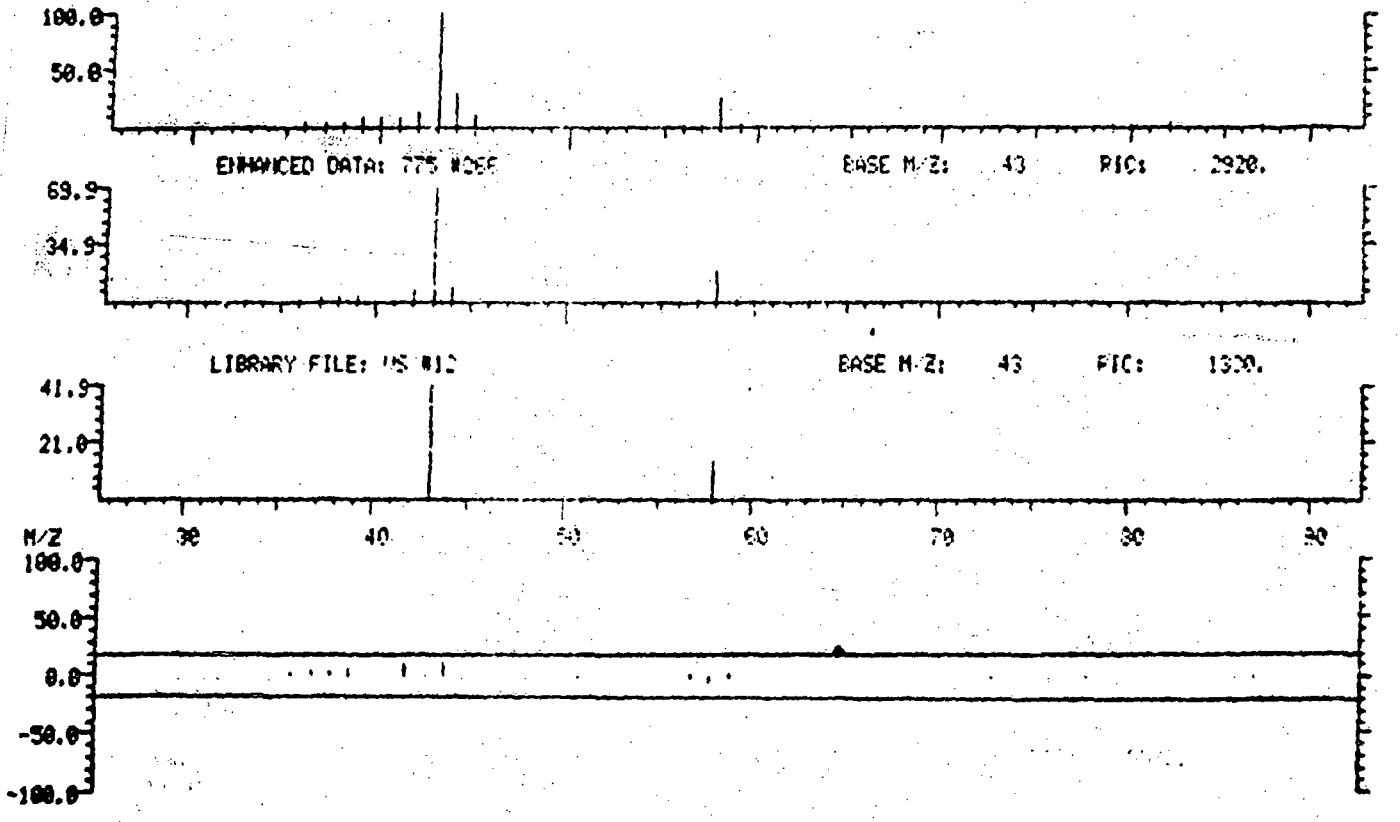




22

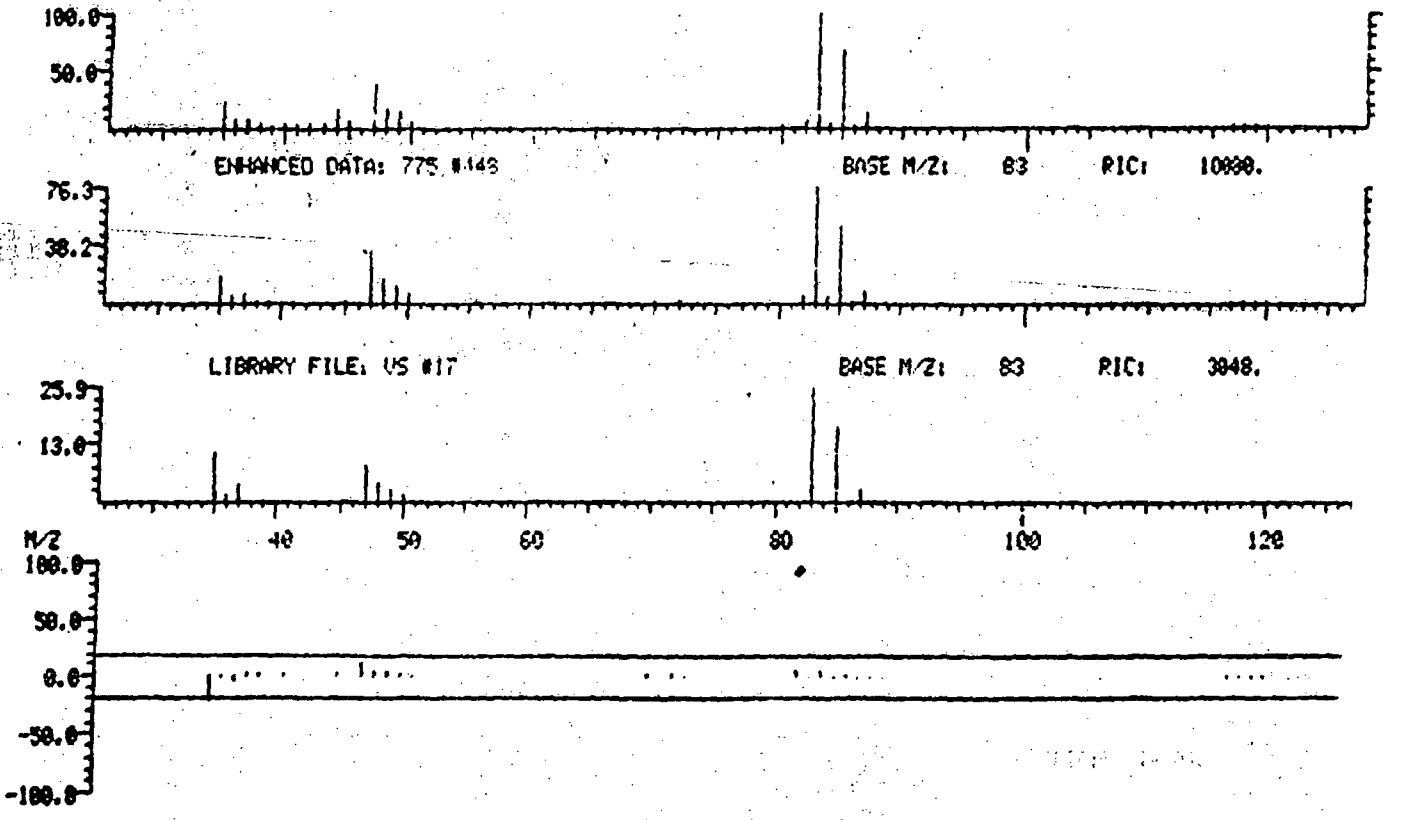
DATA FILE: 775 #266 LIBRARY FILE: US #12
TARGET COMPOUND COMPARISON CALI: 775 #3
COMPOUND: C035 ACETONE

RAW DATA: 775 #266 BASE M/Z: 43 RIC: 5592.
07/16/90 12:18



DATA FILE: 775 #448 LIBRARY FILE: US #17
TARGET COMPOUND COMPARISON CALI: 775 #3
COMPOUND: C060 CHLOROFORM

RAW DATA: 775 #448 BASE M/Z: 83 RIC: 14304.
07/16/90 12:18



ABK000721

946010338

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/18/90 11:40:25

DATA FILE: 775

FILTER SCAN PARAMETERS		METHOD LIBRARY & LISTS	
MAX. NUMBER TICS:	10	TIC I.S. LIBRARY:	LIBRARYVV
II-TABLE ENTRIES:	528	NBS SEARCH PROC :	SERLIB
SCAN TOLERANCE :	2	PEAK FINDER PROC	VOME
MIN. RIC HT. (%):	10	TCA I.S. LL	VL
FIRST SCAN :	21	FILE NAME LIST :	TCAREF2
LAST SCAN :	1450		
TIC THRESHOLD :	600		

TARGET COMPOUND ANALYSIS

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING:

TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	: MIN RIC HT	< SCAN TOL	: MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
	<----------REJECT PEAKS---------->						
11	0	0	3	8	0	11	0

NO UNKNOWN PEAKS TO BE IDENTIFIED

ABK000722

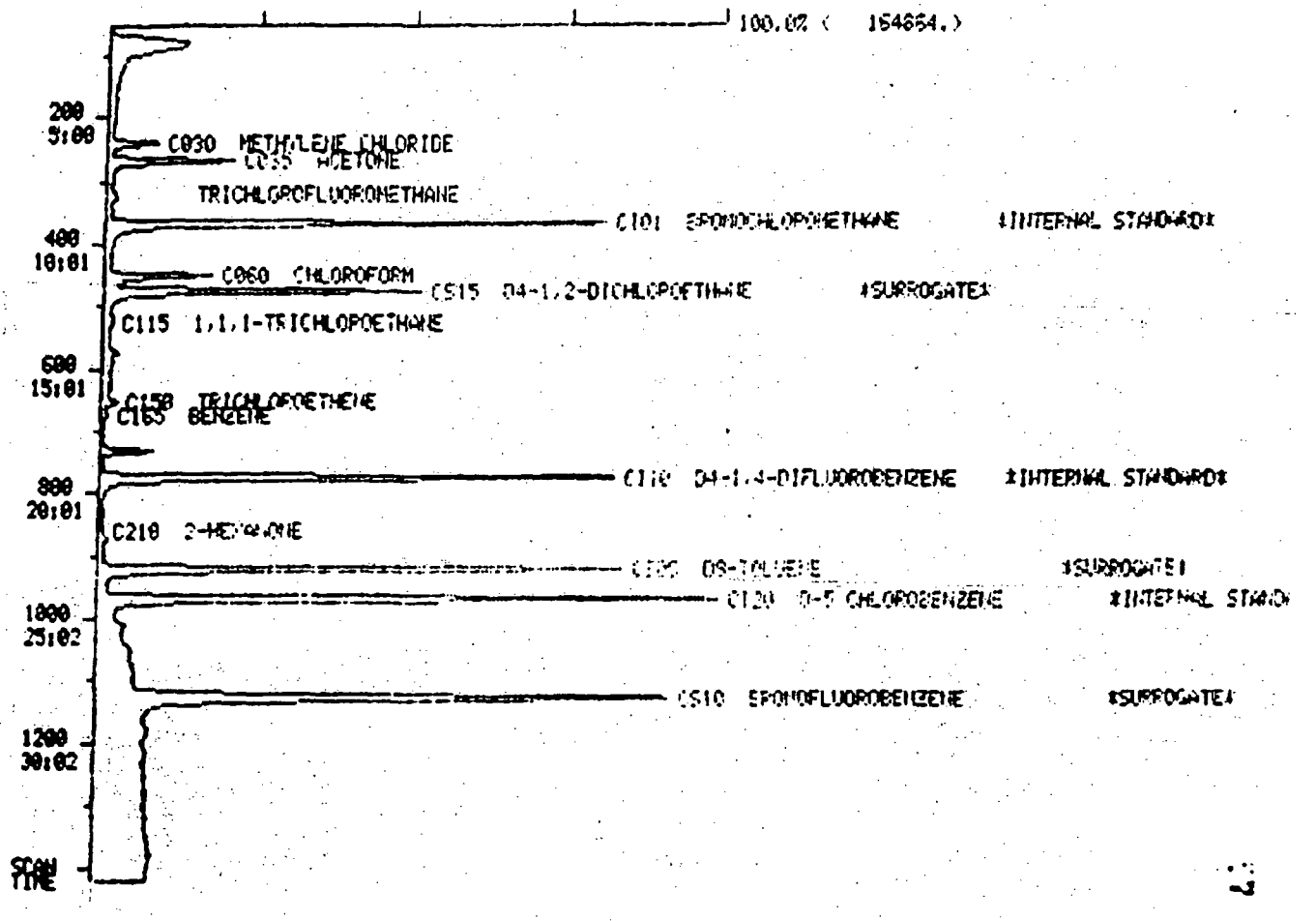
946010339

DATA FOR

SAMPLE PE1

DATA FROM FILE: 777 SCANS 50 TO 1419 ACQUIRED: 07/16/90 15:15:00
CHLI: 777 #3

SAMPLE: SS-3010
CONDS.: WPB-PE1



ABK000724

946010341

Quantitation Report File 777

Date: 777.TI
07/16/90 15:15:00
Sample: SS-3010
Conds.: WPB-PE1
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct No

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole RL

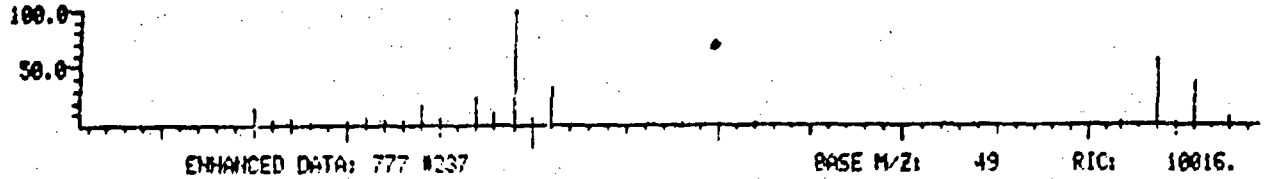
No	Name		
1	C101	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	C110	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	C120	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	
46		TOTAL TRIHALOMETHANES	

No	Name
48	2-CHLOROETHYL VINYL ETHER

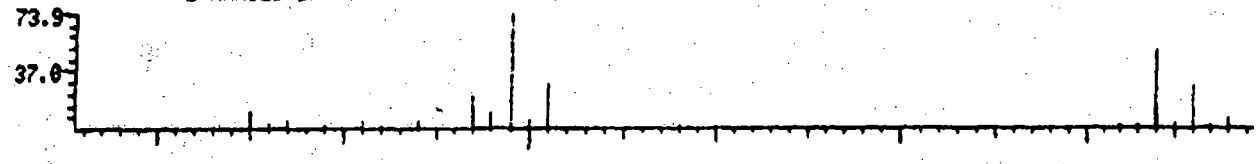
No	m/z	Scan	Time	Ref	RST	Meth	Area(Hght)	Amount	%Tot
1	128	365	9:08	1	1.000	A BB	102141.	50.000 UG/KG	12.90
2	114	773	19:21	2	1.000	A BB	363807.	50.000 UG/KG	12.90
3	117	966	24:11	3	1.000	A BB	324218	50.000 UG/KG	12.90
4	65	473	11:50	1	1.296	A BB	200818	51.532 UG/KG	13.29
5	98	919	23:00	2	0.951	A BB	343610.	49.905 UG/KG	12.87
6	95	1126	28:11	3	1.166	A BB	315474.	57.891 UG/KG	14.93
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	237	5:56	1	0.649	A BB	16252.	3.655 UG/KG	0.94
12	43	265	6:38	1	0.726	A BB	155955.	65.112 UG/KG	16.79
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	448	11:13	1	1.227	A BB	63522	7.623 UG/KG	1.97
18	NOT FOUND								
19	NOT FOUND								
20	97	523	13:05	2	0.677	A BB	1166.	0.233 UG/KG	0.06
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	130	649	16:15	2	0.840	A BB	1732	0.505 UG/KG	0.13
27	NOT FOUND								
28	NOT FOUND								
29	78	670	16:46	2	0.867	A BB	2392	0.284 UG/KG	0.07
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	858	21:29	3	0.888	A+VB	564	0.163 UG/KG	0.04
34	164	873	21:51	3	0.904	A BB	455.	0.158 UG/KG	0.04
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	101	317	7:56	1	0.848	A BB	2557.	0.680 UG/KG	0.18
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 777 #237 LIBRARY FILE: US #11
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: C030 METHYLENE CHLORIDE

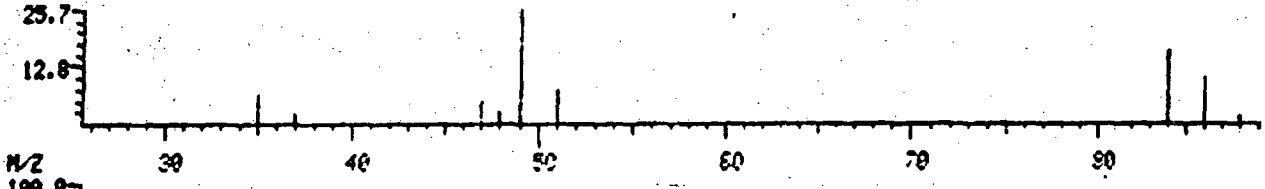
RAW DATA: 777 #237 BASE M/Z: 49 RIC: 13776.
07/16/90 15:15

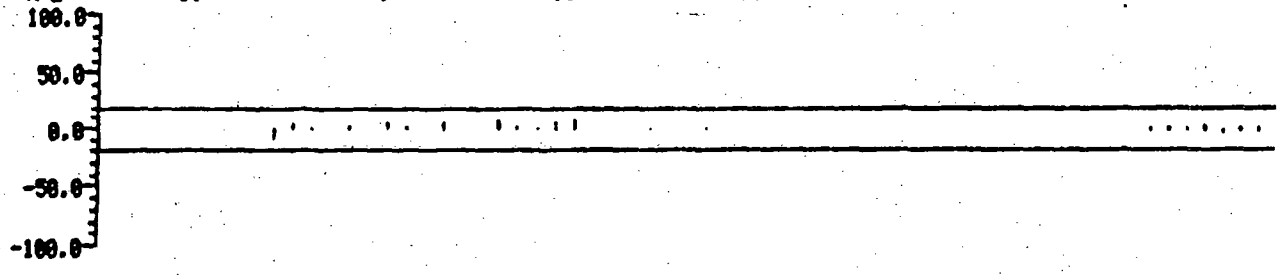


ENHANCED DATA: 777 #237 BASE M/Z: 49 RIC: 10016.



LIBRARY FILE: US #11 BASE M/Z: 49 RIC: 2996.



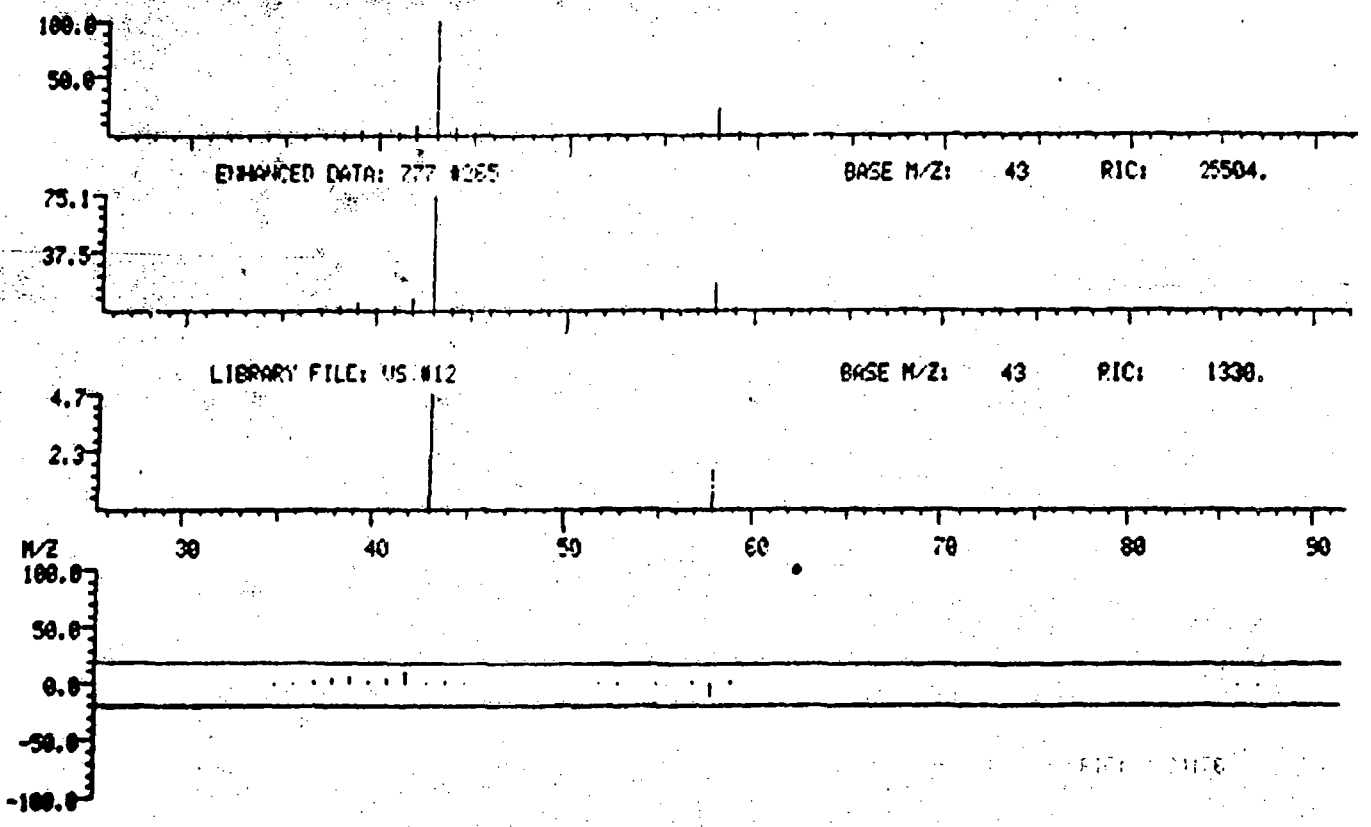


ABK000727

946010344

DATA FILE: 777 #265 LIBRARY FILE: US #12
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: C035 ACETONE

RAW DATA: 777 #265 BASE M/Z: 43 RIC: 34176.
07/16/90 15:15



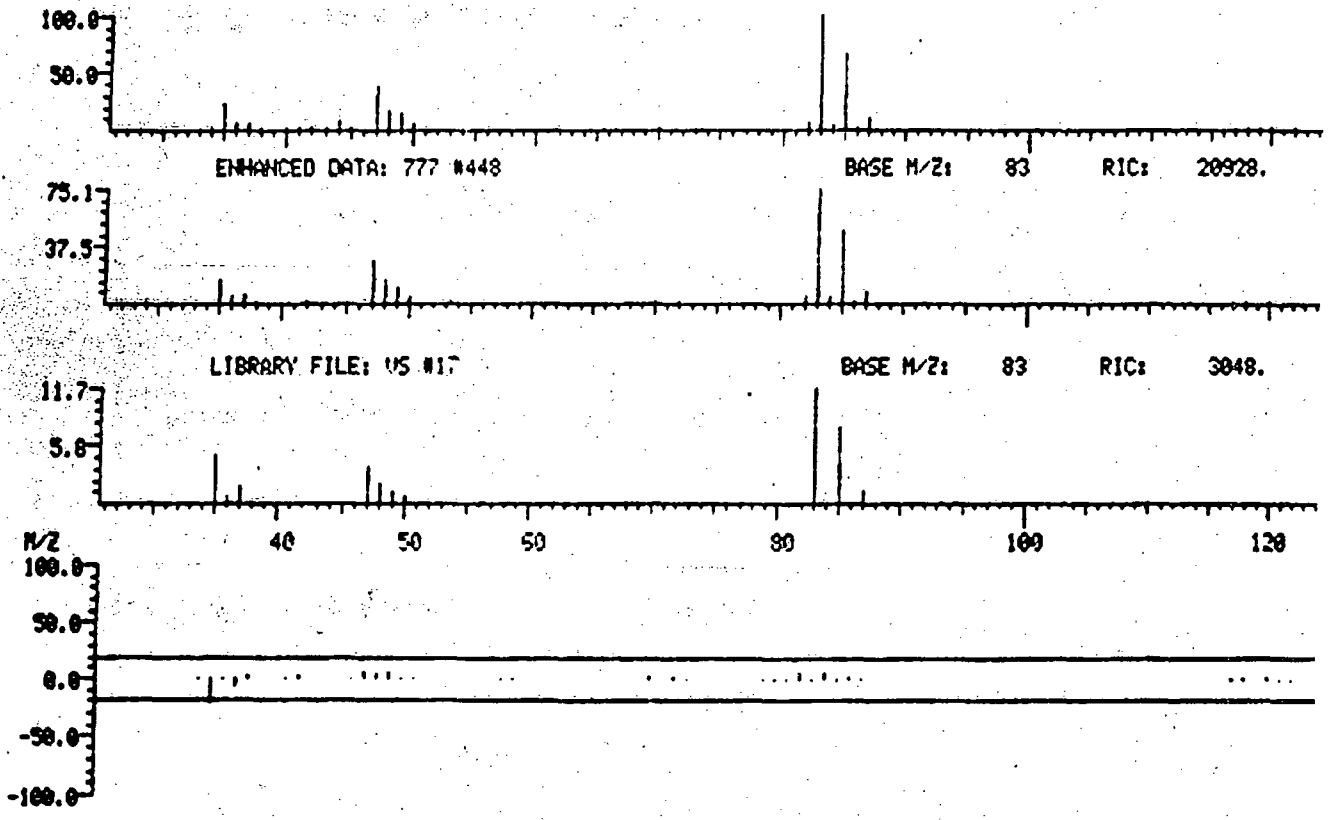
C1

ABK000728

946010345

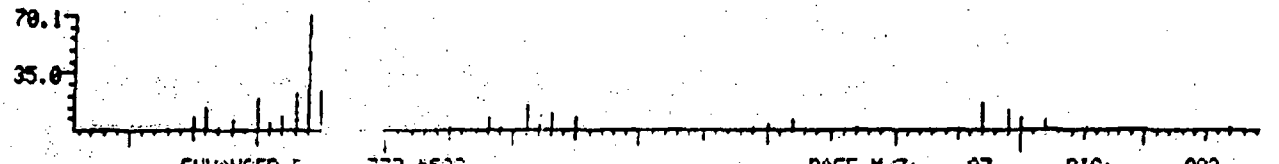
DATA FILE: 777 #448 LIBRARY FILE: US #17
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: C060 CHLOROFORM

RAW DATA: 777 #448 BASE M/Z: 83 RIC: 29024.
07/16/90 15:15

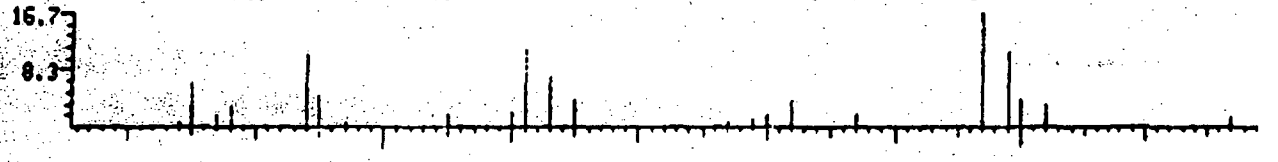


DATA FILE: 777 #523 LIBRARY FILE: US #20
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: C115 1,1,1-TRICHLOROETHANE

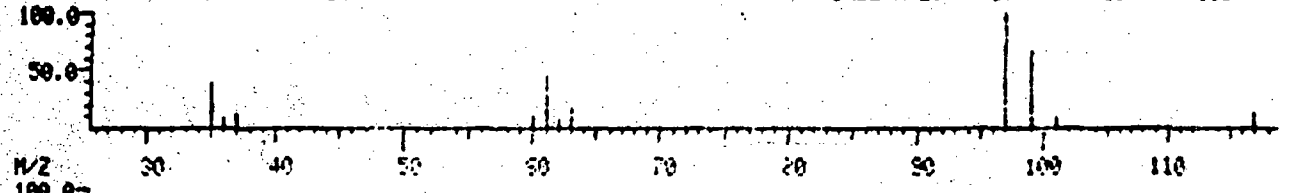
RAW DATA: 777 #523 BASE M/Z: 44 RIC: 2816.
07/16/90 15:15

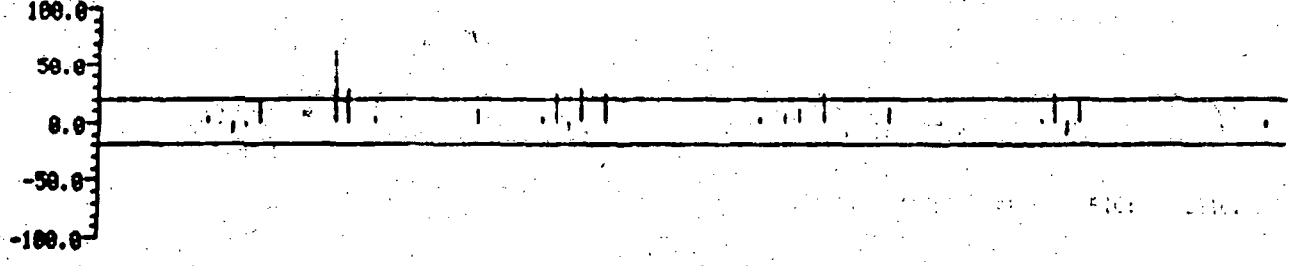


ENHANCED 777 #523 BASE M/Z: 97 RIC: 393.



LIBRARY FILE: US #20 BASE M/Z: 97 RIC: 3324.



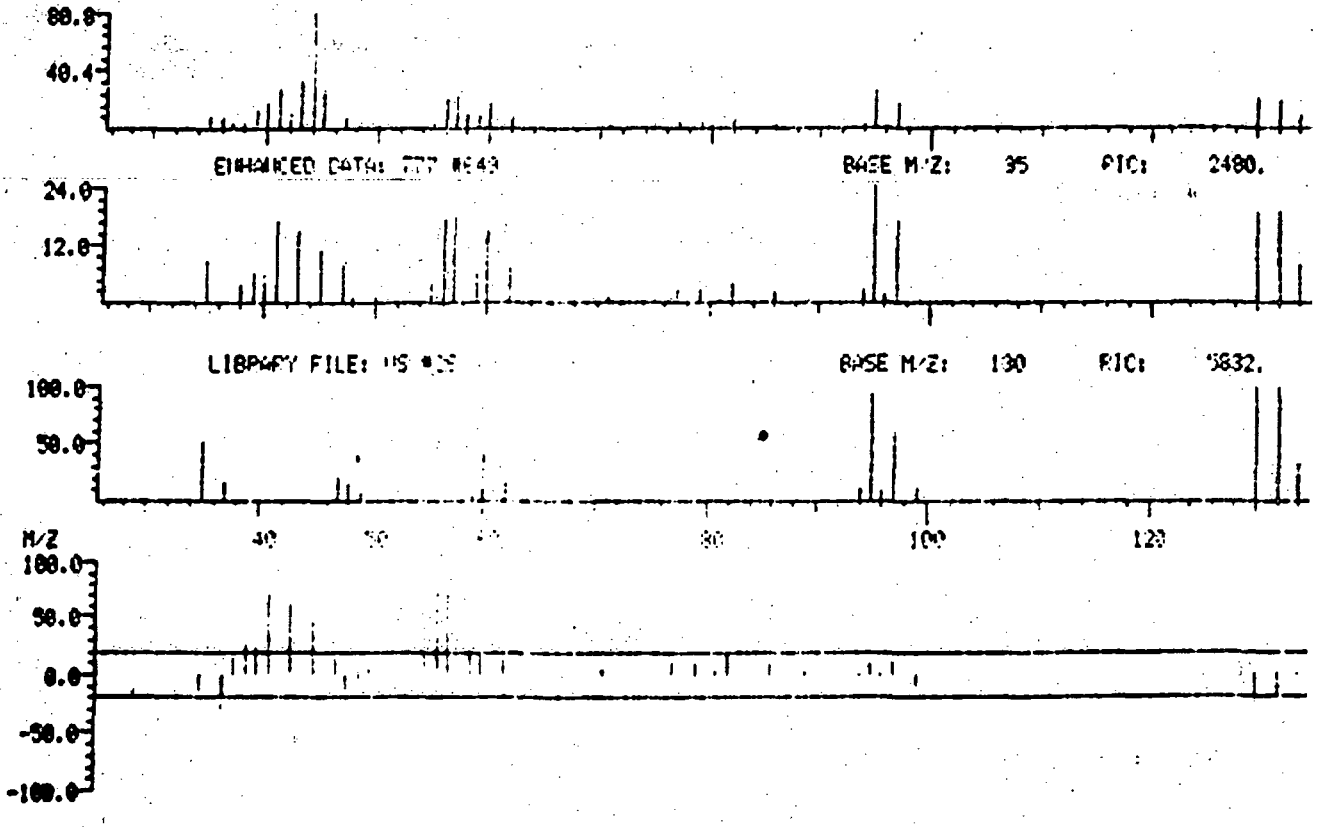


ABK000730

946010347

DATA FILE: 777 #643 LIBRARY FILE: US #26
TARGET COMPOUND COMPARISON CAL: 777 #3
COMPOUND: C150 TRICHLOROETHENE

RAW DATA: 777 #643 BASE M/Z: 44 RIC: 4456.
07 16 90 15:15

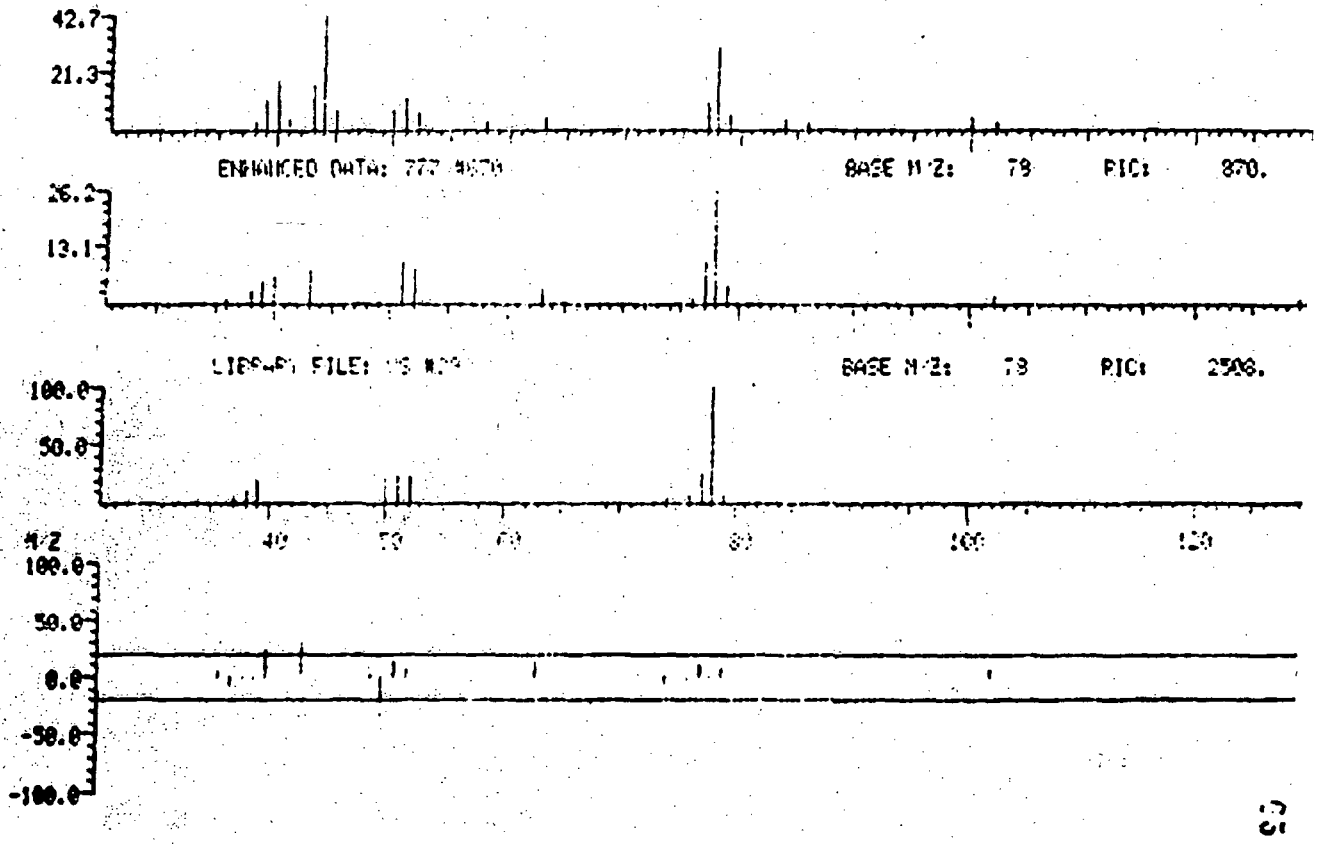


ABK000731

946010348

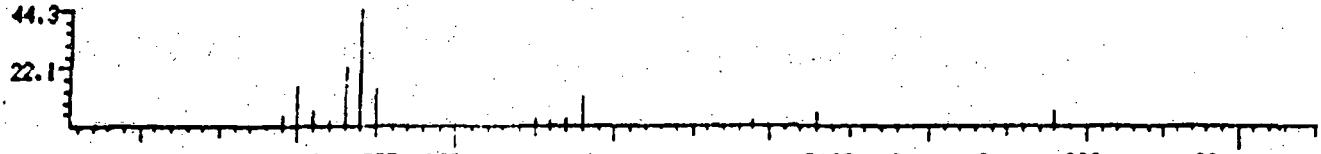
DATA FILE: 777 #670 LIBRARY FILE: US #29
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: C165 BENZENE

RAW DATA: 777 #670 BASE M/Z: 44 RIC: 1964.
07/16/90 15:15

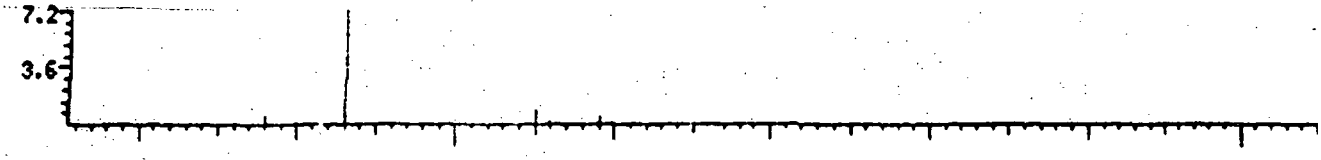


DATA FILE: 777 #858 LIBRARY FILE: US #33
TARGET COMPOUND COMPARISON CAL1: 777 #3
COMPOUND: C210 2-HEXANONE

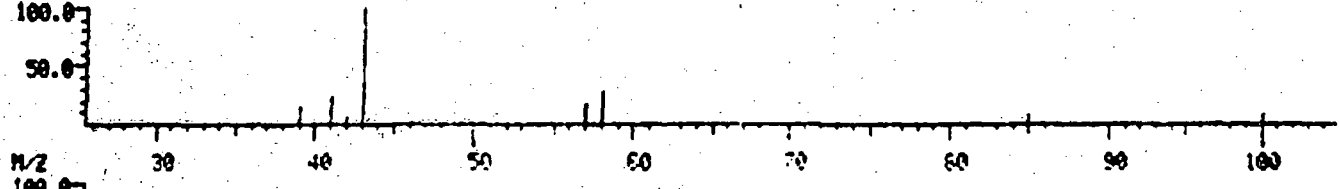
RAW DATA: 777 #858 BASE M/Z: 44 RIC: 1370.
07/16/90 15:15

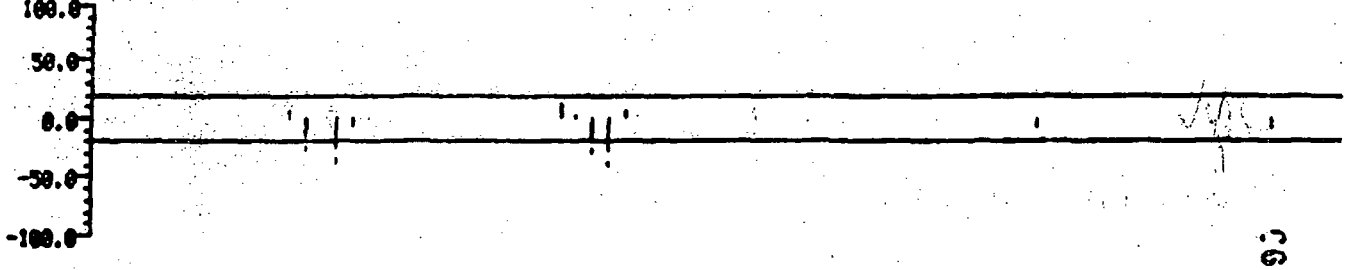


ENHANCED DATA: 777 #858 BASE M/Z: 43 RIC: 92.



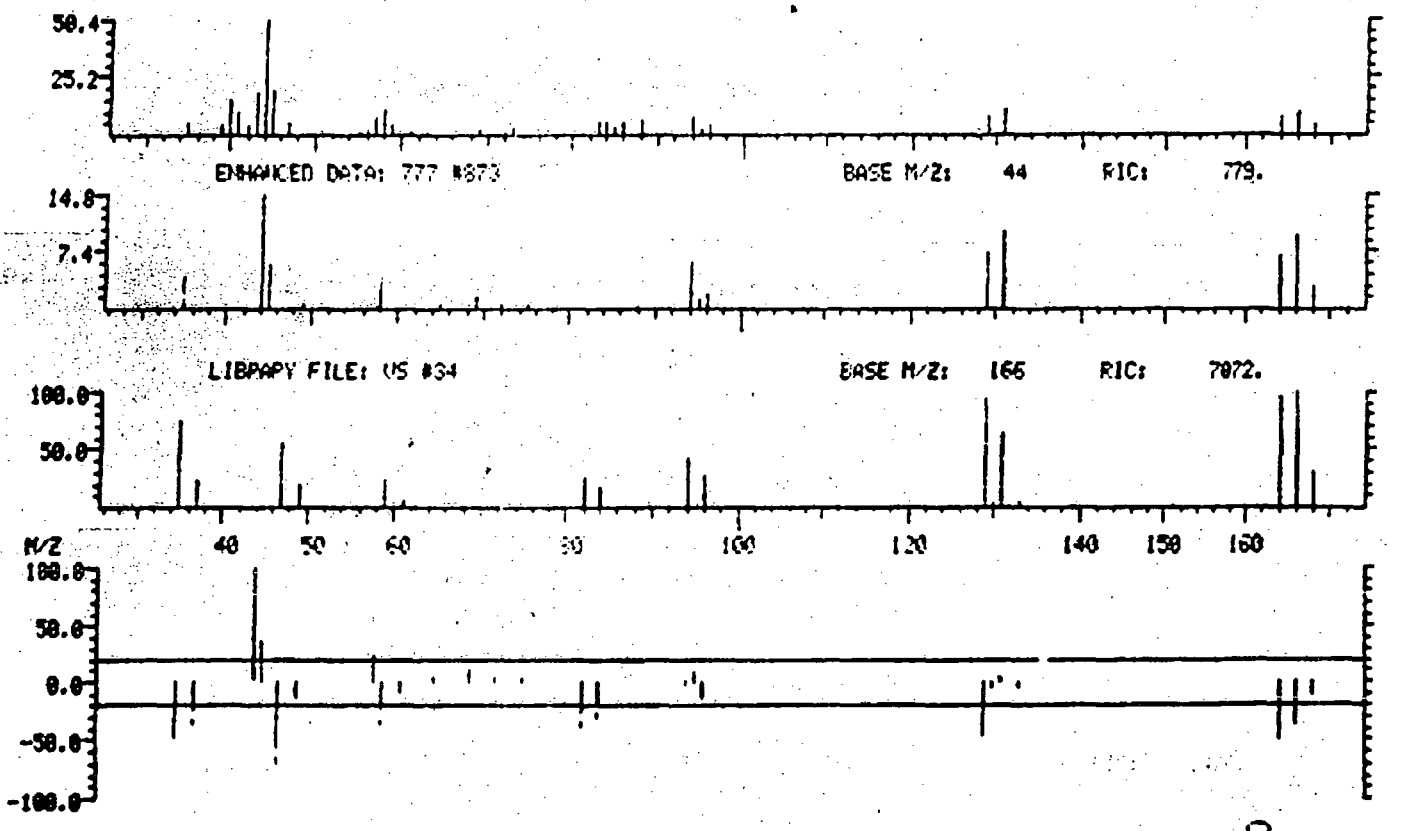
LIBRARY FILE: US #33 BASE M/Z: 43 RIC: 2056.





DATA FILE: 777 #873 LIBRARY FILE: US #34
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: C220 TETRACHLOROETHENE

RAW DATA: 777 #873 BASE M/Z: 44 RIC: 2476.
07/16/90 15:15

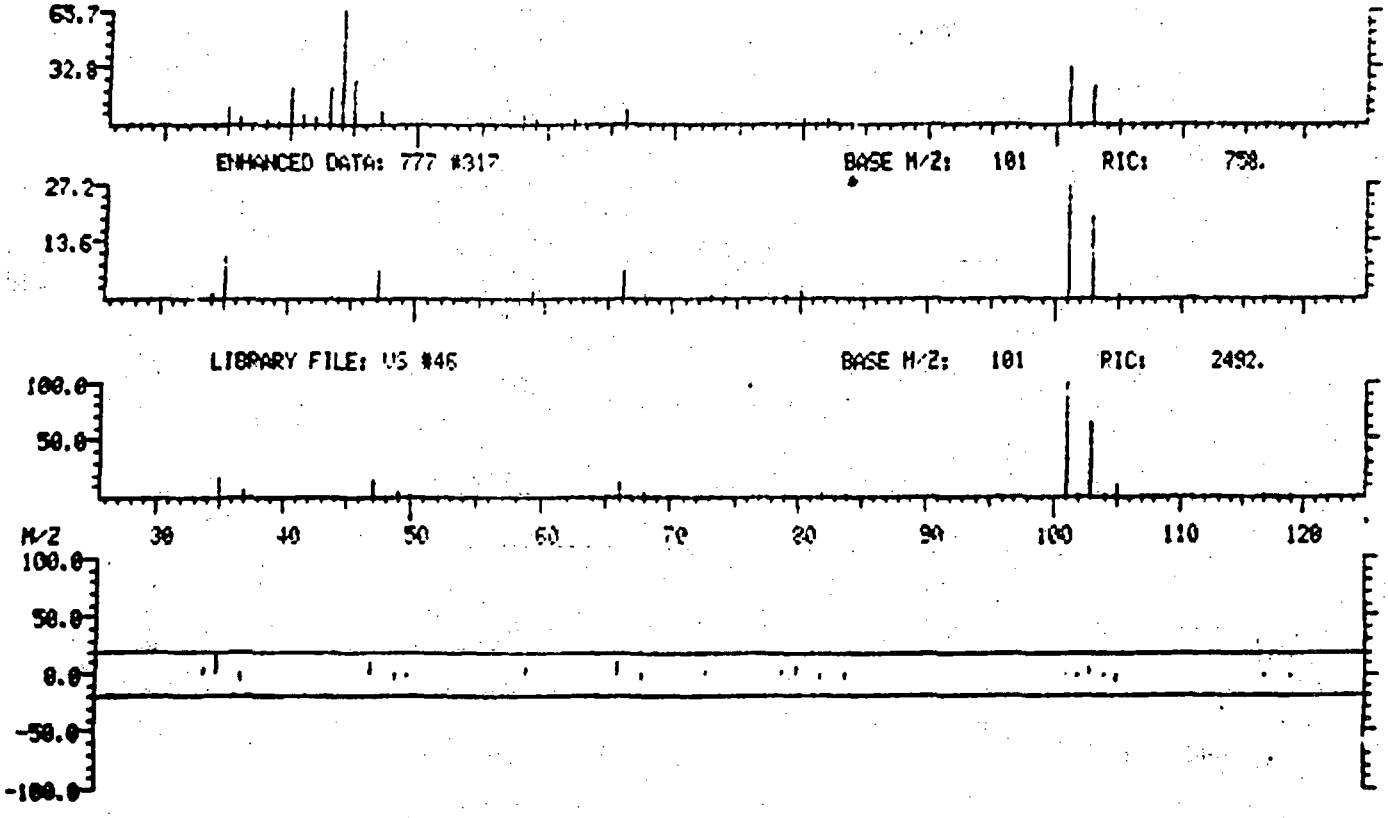


ABK000734

946010351

DATA FILE: 777 #317 LIBRARY FILE: US #46
TARGET COMPOUND COMPARISON CALI: 777 #3
COMPOUND: TRICHLOROFLUOROMETHANE

RAW DATA: 777 #317 BASE M/Z: 44 RIC: 2468.
07/16/90 15:15



C3

ABK000735

946010352

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/18/90 11:51:28

DATA FILE: 777

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	10
II-TABLE ENTRIES:	528
SCAN TOLERANCE :	2
MIN. RIC HT. [%]:	10
FIRST SCAN :	21
LAST SCAN :	1450
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYVV
NDS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	VL
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
16	3	19

FILTER PROCESSING:

TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
	<----------REJECT PEAKS---------->						
13	0	0	2	10	0	12	1

TIC PROCESSING

NO	SCAN#	PURITY	FIT	MW	COMPOUND NAME (BEFORE TIC THRESHOLD)
1	729	915	960	86	HEXANE (DOT)

Quantitation Report File: 777

Data. 777.TI
07/16/90 15:15:00
Sample: SS-3010
Conds.: WPB-PEI
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	CAS #	Name	
1	0-00-0.	CI01 BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	0-00-0	CI10 D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	0-00-0	CI20 D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	110-54-3	HEXANE (DOT)	

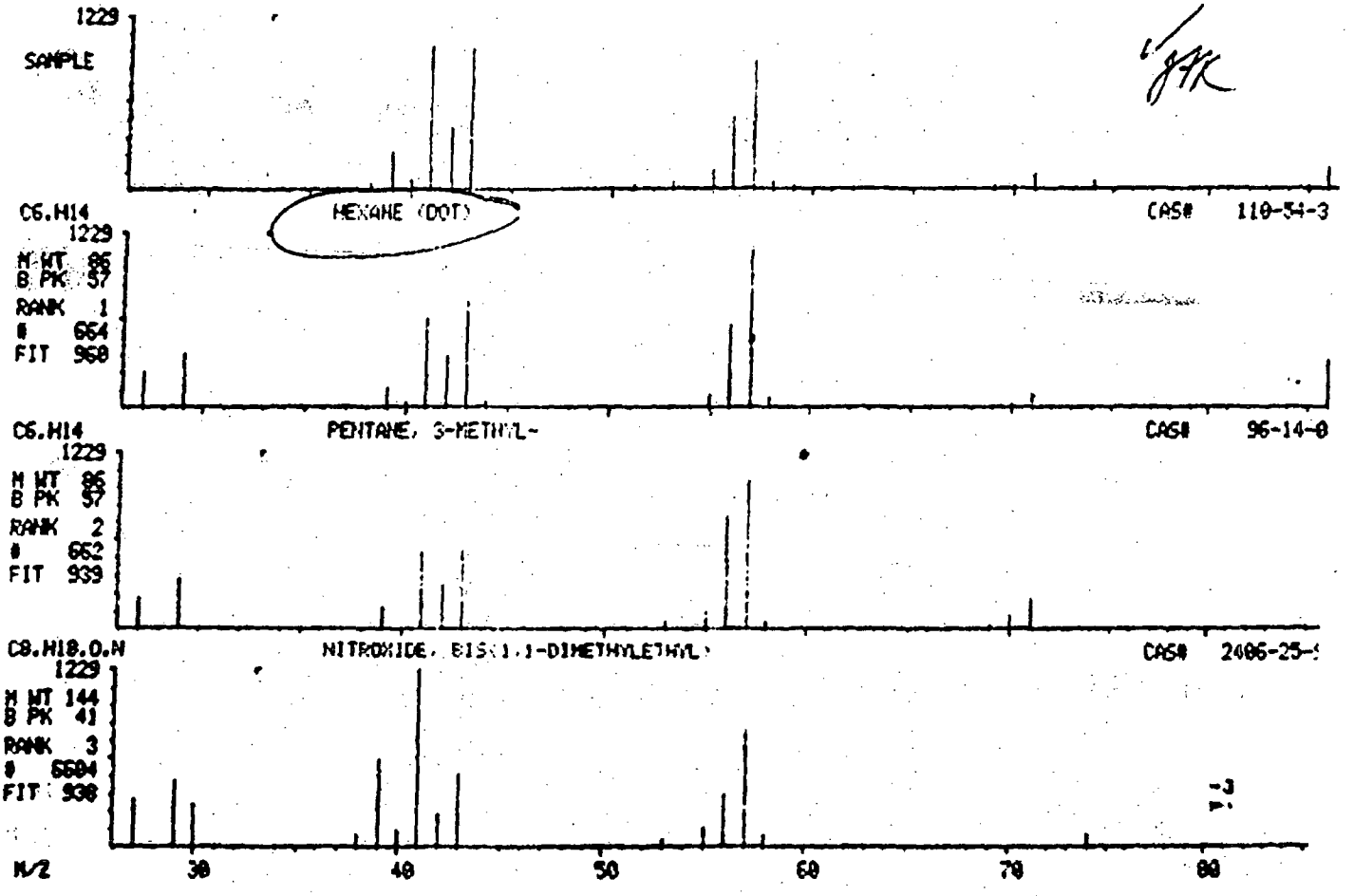
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	365	9:08	1	1.000	A BB	909803.	50.000 UG/ML	31.97
2	TOT	773	19:21	2	1.000	A BB	764305.	50.000 UG/ML	31.97
3	TOT	966	24:11	3	1.000	A BB	1114570.	50.000 UG/ML	31.97
4	TOT	729	18:15	2	0.943	A BB	97773.	6.396	4.09

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	0.85	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	14:00	1.38	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	21:47	1.11	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4					6.40	1.00	6.396	1.000	6.40

MID LIBRARY SEARCH (LIBRARYNB)
07/16/90 15:15:09 + 18:15
SAMPLE: SS-3010
CONDS.: WPB-PE1
ENHANCED (S 15B 2N OT)

DATA: 777 # 729
CALI: 777 # 3

BASE M/Z: 41
RIC: 10384.



ABK000738

946010355

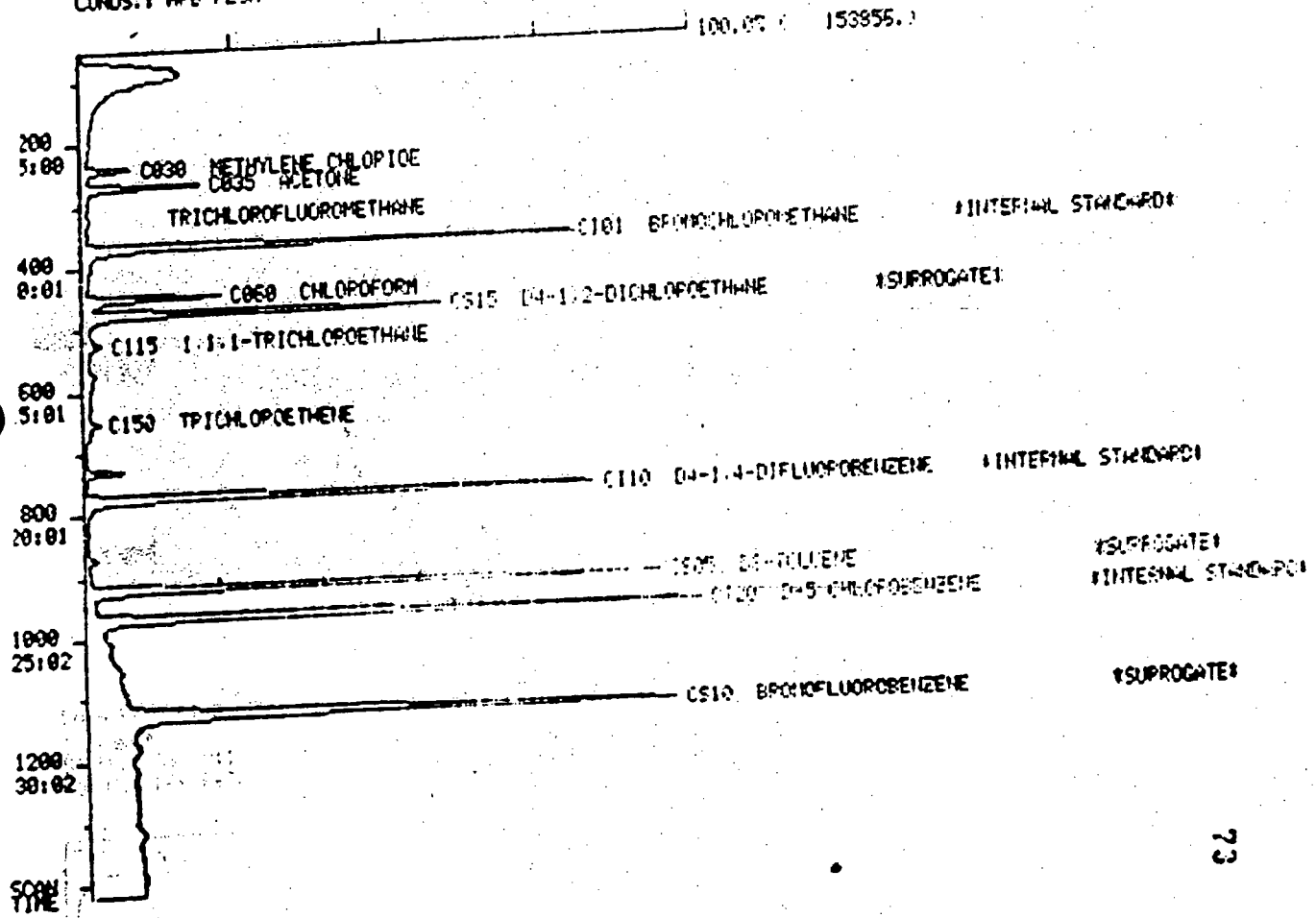
DATA FOR

SAMPLE PE3A

DATA FROM FILE: 773

SCANS 50 TO 1418 ACQUIRED: 07/16/90 16:23:00
CHLI: 773 #3

SAMPLE: SS-301:
CONDS.: HPB-PE3W



73

Quantitation Report File: 778

Data: 778.TI
07/16/90 16:23:00
Sample: SS-3011
Conds.: WPB-PE3A
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst JFK Acct. No.

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole RL

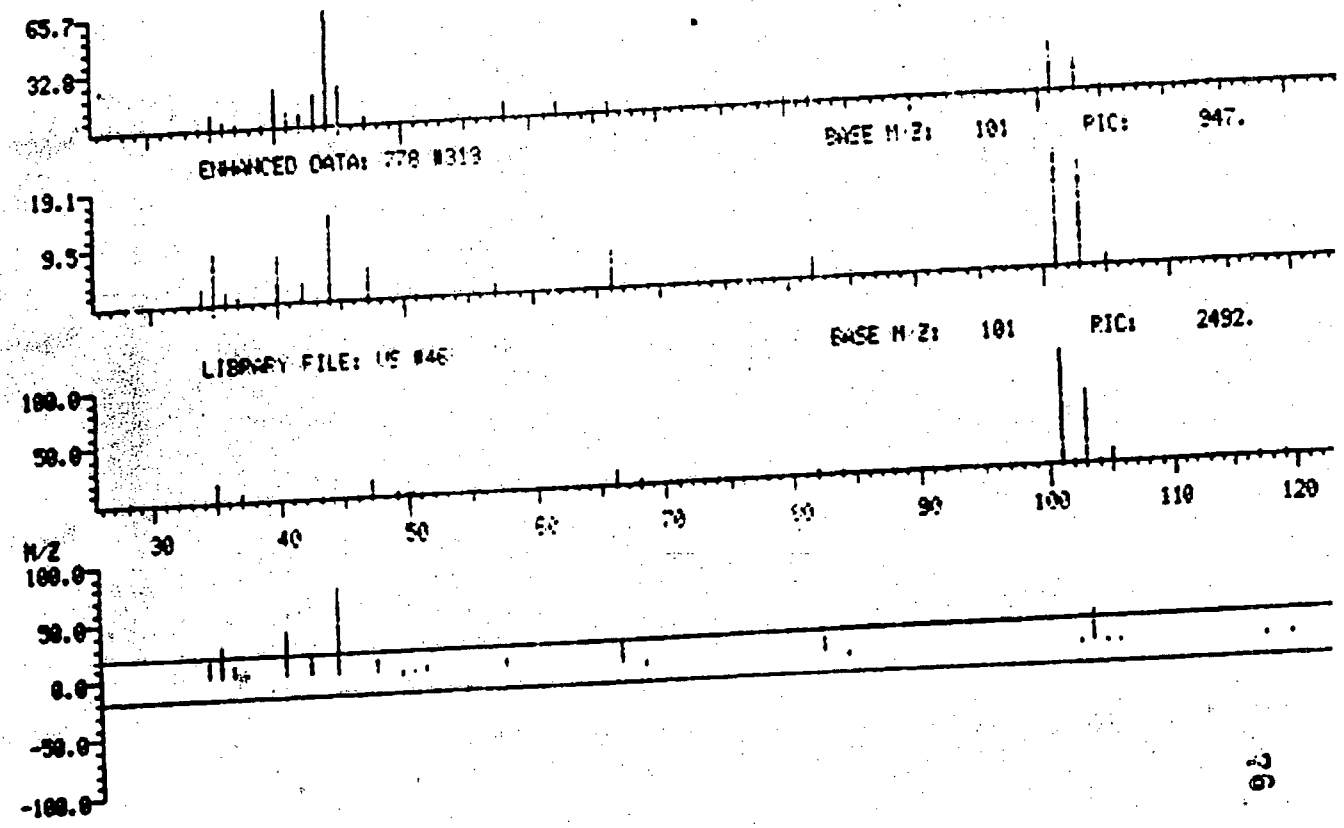
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	

No	Name
48	2-CHLORDETHYL VINYL ETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		XTot
1	128	365	9:08	1	1.000	A BB	96059.	50.000	UG/KG	12.49
2	114	773	19:21	2	1.000	A BB	332997.	50.000	UG/KG	12.49
3	117	966	24:11	3	1.000	A BB	298397.	50.000	UG/KG	12.49
4	65	474	11:52	1	1.299	A BB	210838.	57.529	UG/KG	14.37
5	95	919	23:00	3	0.951	A BB	348114	54.934	UG/KG	13.72
6	95	1127	28:13	3	1.167	A BB	301388.	60.091	UG/KG	15.01
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	84	238	5:57	1	0.652	A BB	15612	3.733	UG/KG	0.93
12	43	266	6:39	1	0.729	A BB	138482	61.478	UG/KG	15.36
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	83	446	11:13	1	1.227	A BB	77528.	9.892	UG/KG	2.47
18	NOT FOUND									
19	NOT FOUND									
20	97	524	13:07	2	0.678	A BB	6119	1.338	UG/KG	0.33
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	130	649	16:15	2	0.840	A BB	2271.	0.723	UG/KG	0.18
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	101	318	7:58	1	0.871	A BB	2219.	0.627	UG/KG	0.16
47	NOT FOUND									
48	NOT FOUND									

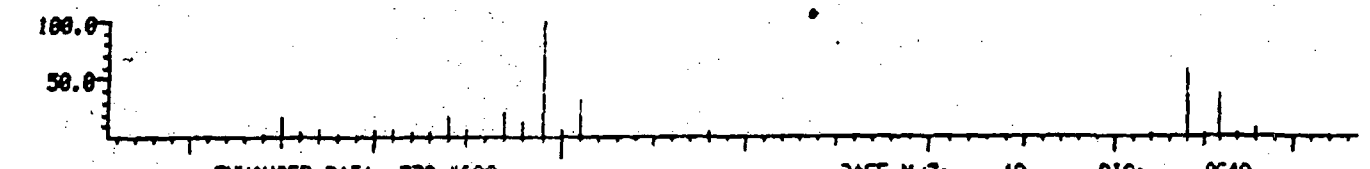
DATA FILE: 778 #318 LIBRARY FILE: [illegible] #16
CALI: 778 #3
TARGET COMPOUND COMPARISON
COMPOUND: TRICHLOROFLUOROMETHANE
BASE M/Z: 44 RIC: 2392.

RAW DATA: 778 #318
07/16/90 15:23

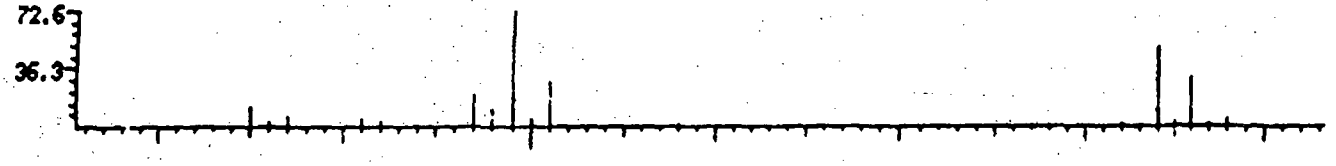


DATA FILE: 778 #238 LIBRARY FILE: US #11
TARGET COMPOUND COMPARISON CHL1: 778 #3
COMPOUND: C030 METHYLENE CHLORIDE

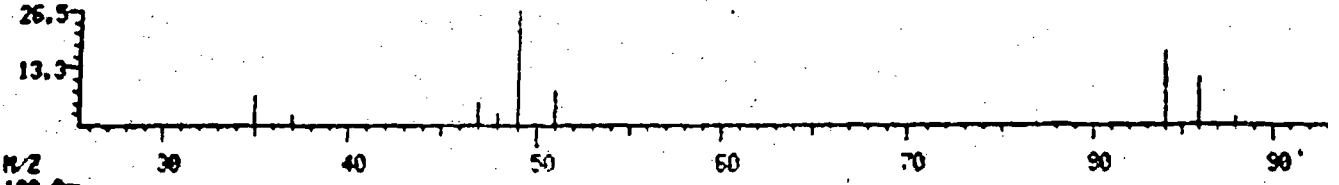
RAW DATA: 778 #238 BASE M/Z: 49 RIC: 13600.
07/16/90 16:23

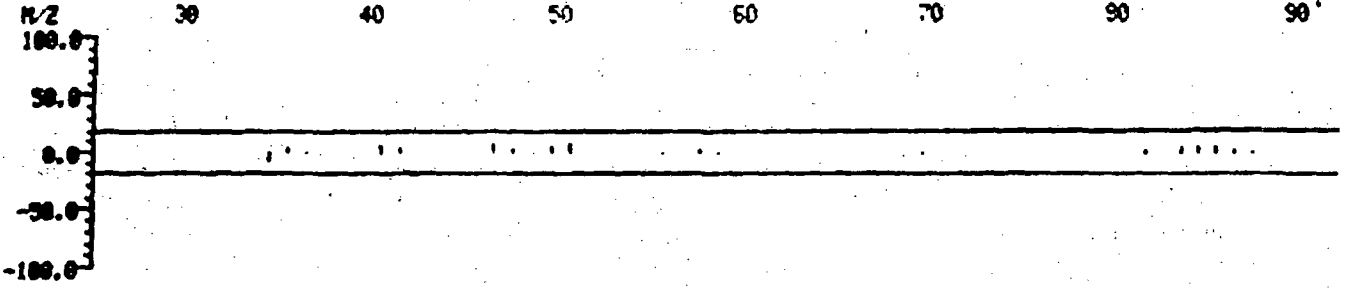


ENHANCED DATA: 778 #238 BASE M/Z: 49 RIC: 9648.



LIBRARY FILE: US #11 BASE M/Z: 49 RIC: 2996.



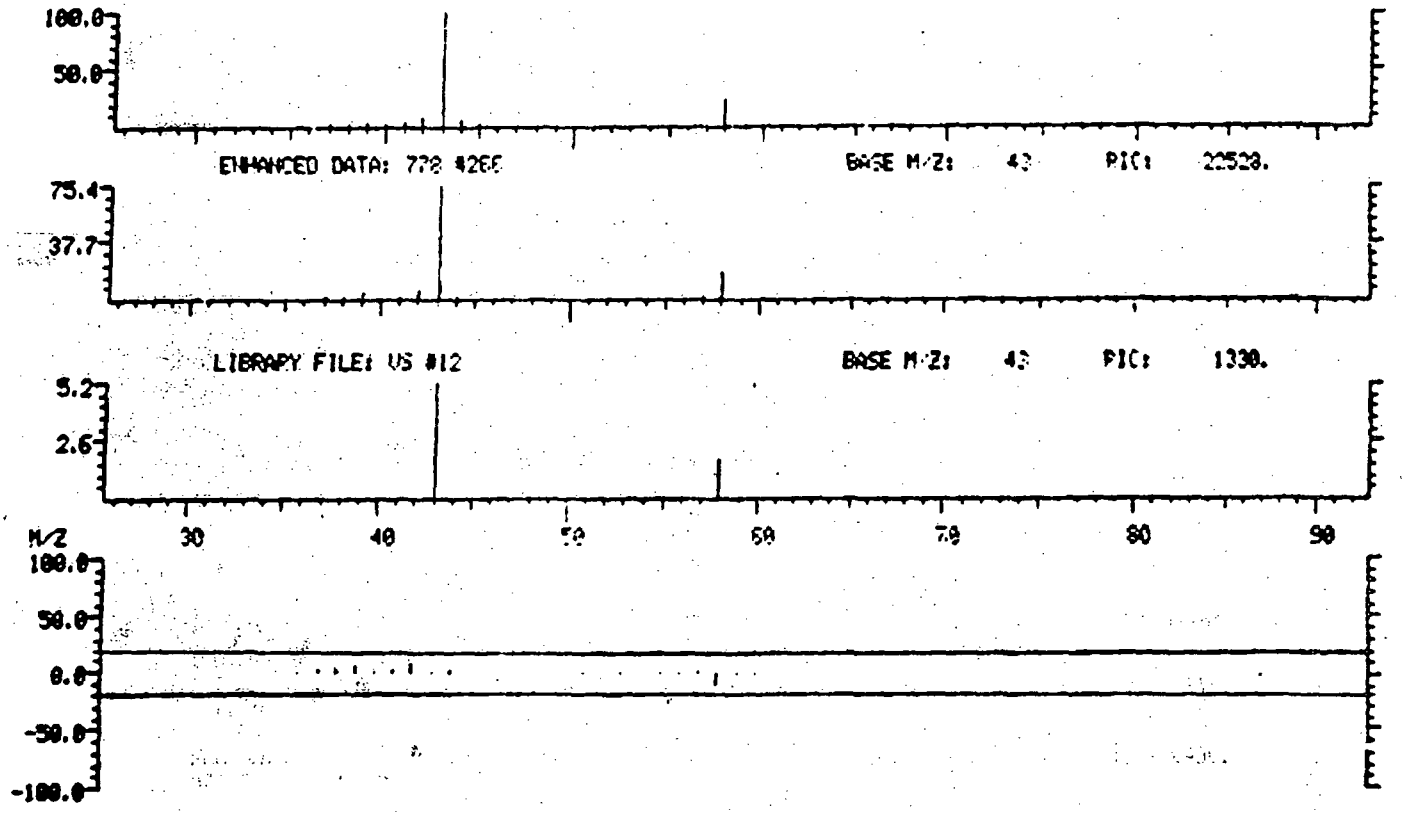


ABK000744

946010361

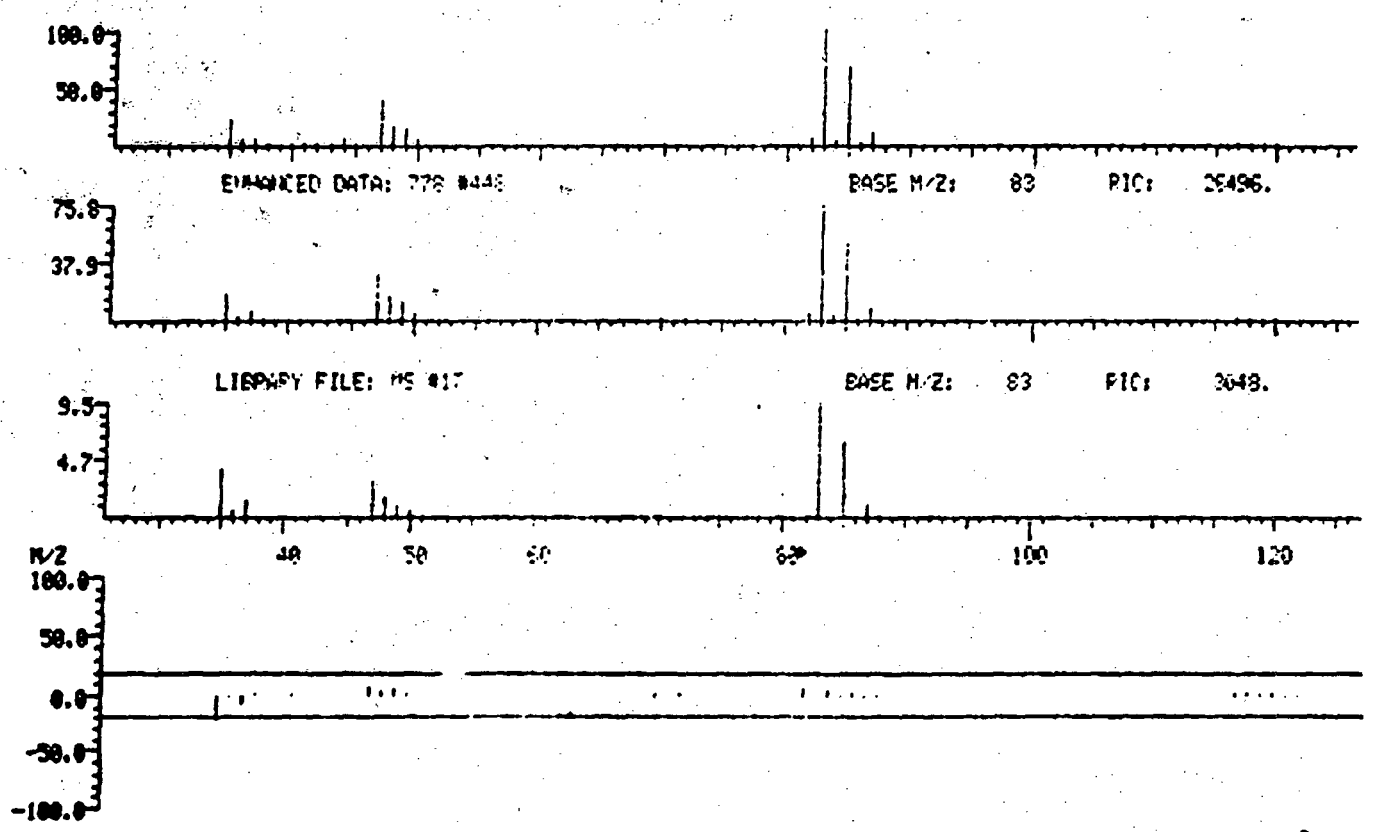
DATA FILE: 778 #266 LIBRARY FILE: US #12
TARGET COMPOUND COMPARISON CALI: 778 #3
COMPOUND: C035 ACETONE

RAW DATA: 778 #266 BASE M/Z: 43 RIC: 30496.
07/16/90 16:23



DATA FILE: 778 #448 LIBRARY FILE: MS #17
TARGET COMPOUND COMPARISON CALI: 778 #3
COMPOUND: C060 CHLOROFORM

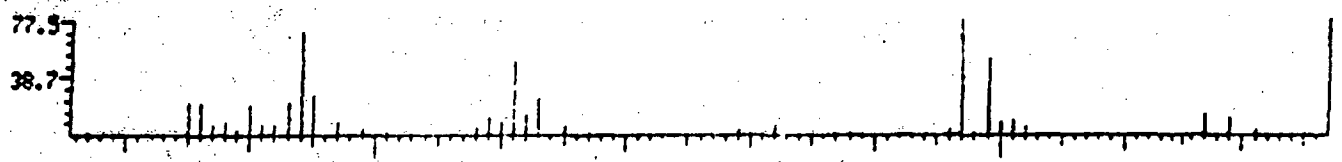
RAW DATA: 778 #448 BASE M/Z: 83 PIC: 35648.
07/16/90 16:23



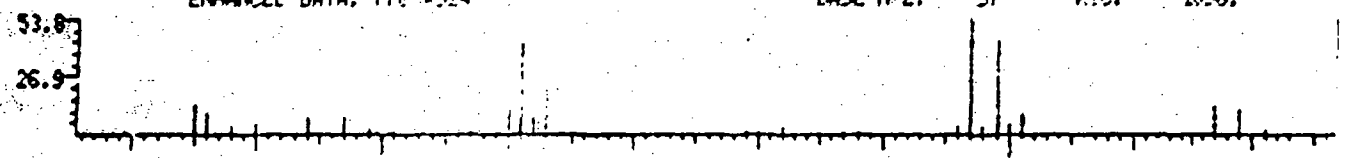
29

DATA FILE: 778 #524 LIBRARY FILE: US #20
TARGET COMPOUND COMPARISON CALI: 778 #3
COMPOUND: C115 1,1,1-TRICHLOROETHANE

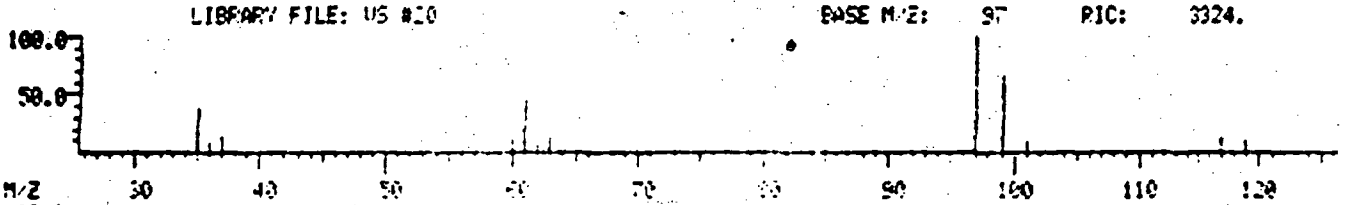
RAW DATA: 778 #524 BASE M/Z: 97 RIC: 5464.
07/16/90 16:23

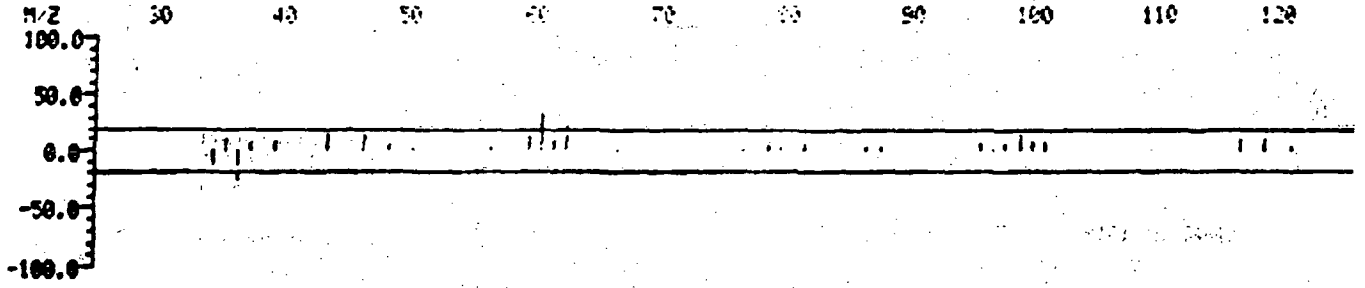


ENHANCED DATA: 778 #524 BASE M/Z: 97 RIC: 2896.



LIBRARY FILE: US #20 BASE M/Z: 97 RIC: 3324.





ABK000747

946010364

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/18/90 12:06:04

01

DATA FILE: 778

FILTER SCAN PARAMETERS	
MAX NUMBER TICS:	10
II-TABLE ENTRIES:	528
SCAN TOLERANCE	2
MIN. RIC HT. [%]:	10
FIRST SCAN :	21
LAST SCAN :	1450
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS	
TIC I.S. LIBRARY:	LIBRARYVV
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	VL
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
14	3	17

FILTER PROCESSING:

TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
16	0	0	4	11	0	15	1

TIC PROCESSING:

NO	SCAN#	PURITY	FIT	RW	COMPOUND NAME (BEFORE TIC THRESHOLD)
1	76	608	[illegible]	20	BORANE, ETHYLDIMETHYL-

NO TICS found JAK

ABK000748

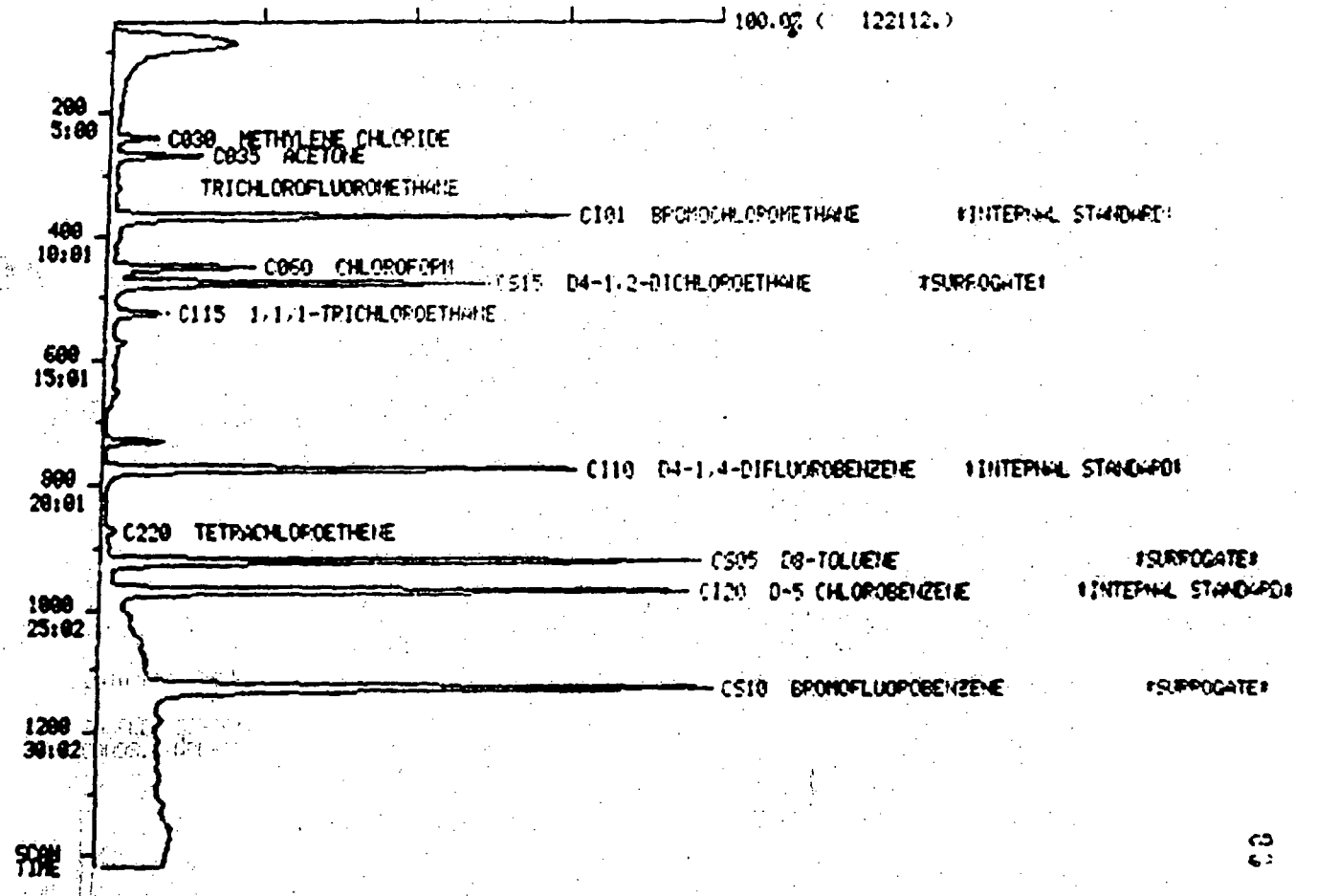
946010365

DATA FOR

SAMPLE PE 3

DATA FROM FILE: 779 SCAN: 50 TO 1410 ACQUIRED: 07/16/90 17:21:09
CALI: 779 #3

SAMPLE: SS-3017
CONDS.: WPB-PE3



BK000750

946010367

Quantitation Report File: 779

Data: 779 TI
07/16/90 17:31:00
Sample: SS-3017
Conds.: WPB-PE3
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	
46		TRIBROMOFLUOROMETHANE	

ABK000751

946010368

No	Name
48	2-CHLORDETHYL VINYL ETHER

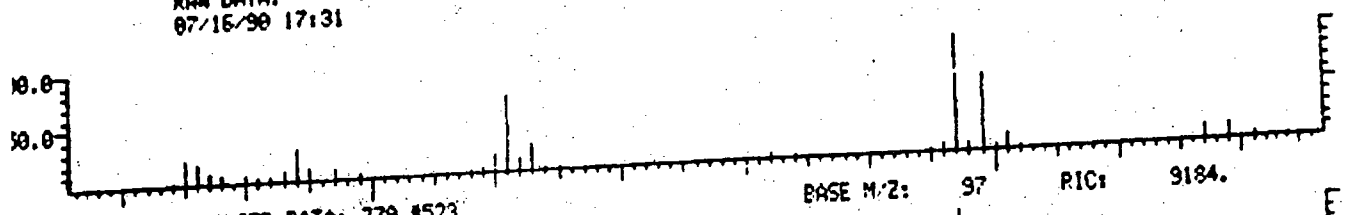
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	365	9:08	1	1.000	A BB	67665.	50.000 UG/KG	13.40
2	114	773	19:21	2	1.000	A BB	243698	50.000 UG/KG	13.40
3	117	966	24:11	3	1.000	A BB	224447	50.000 UG/KG	13.40
4	65	473	11:50	1	1.296	A BB	116476	45.118 UG/KG	12.09
5	98	919	23:00	3	0.951	A BB	267347	56.089 UG/KG	15.03
6	95	1126	28:11	3	1.166	A BB	177692	47.102 UG/KG	12.62
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	237	5:56	1	0.649	A BB	10470	3.554 UG/KG	0.95
12	43	266	6:39	1	0.729	A BB	82505	51.997 UG/KG	13.93
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	448	11:13	1	1.227	A BB	63725	11.543 UG/KG	3.09
18	NOT FOUND								
19	NOT FOUND								
20	97	523	13:05	2	0.677	A BB	19652	5.873 UG/KG	1.57
21	117	524	13:07	2	0.678	A BK	2747	0.933 UG/KG	0.25
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	164	873	21.51	3	0.904	A BB	505	0.253 UG/KG	0.07
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	101	317	7:56	1	0.868	A BB	1964.	0.789 UG/KG	0.21
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 779 #523
TARGET COMPOUND COMPARISON
COMPOUND: C115 1,1,1-TRICHLOROETHANE

LIBRARY FILE: US #20
CALI: 779 #3

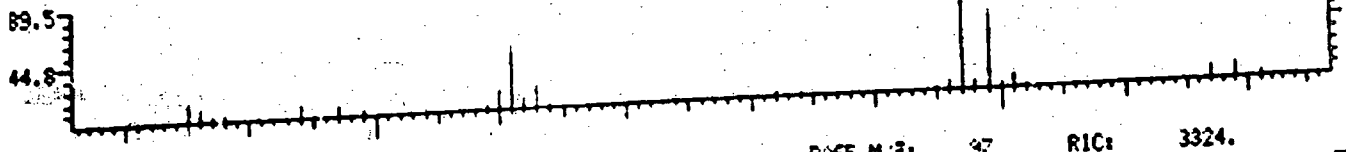
RAW DATA: 779 #523
07/16/90 17:31

BASE M/Z: 97 RIC: 12640.



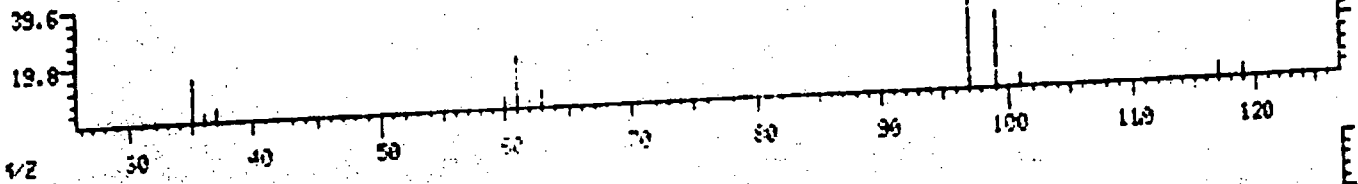
ENHANCED DATA: 779 #523

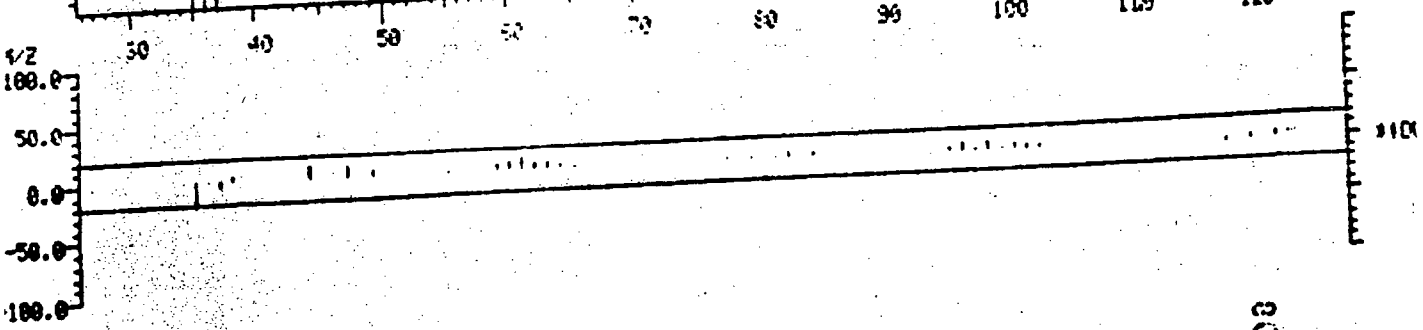
BASE M/Z: 97 RIC: 9184.



LIBRARY FILE: US #20

BASE M/Z: 97 RIC: 3324.



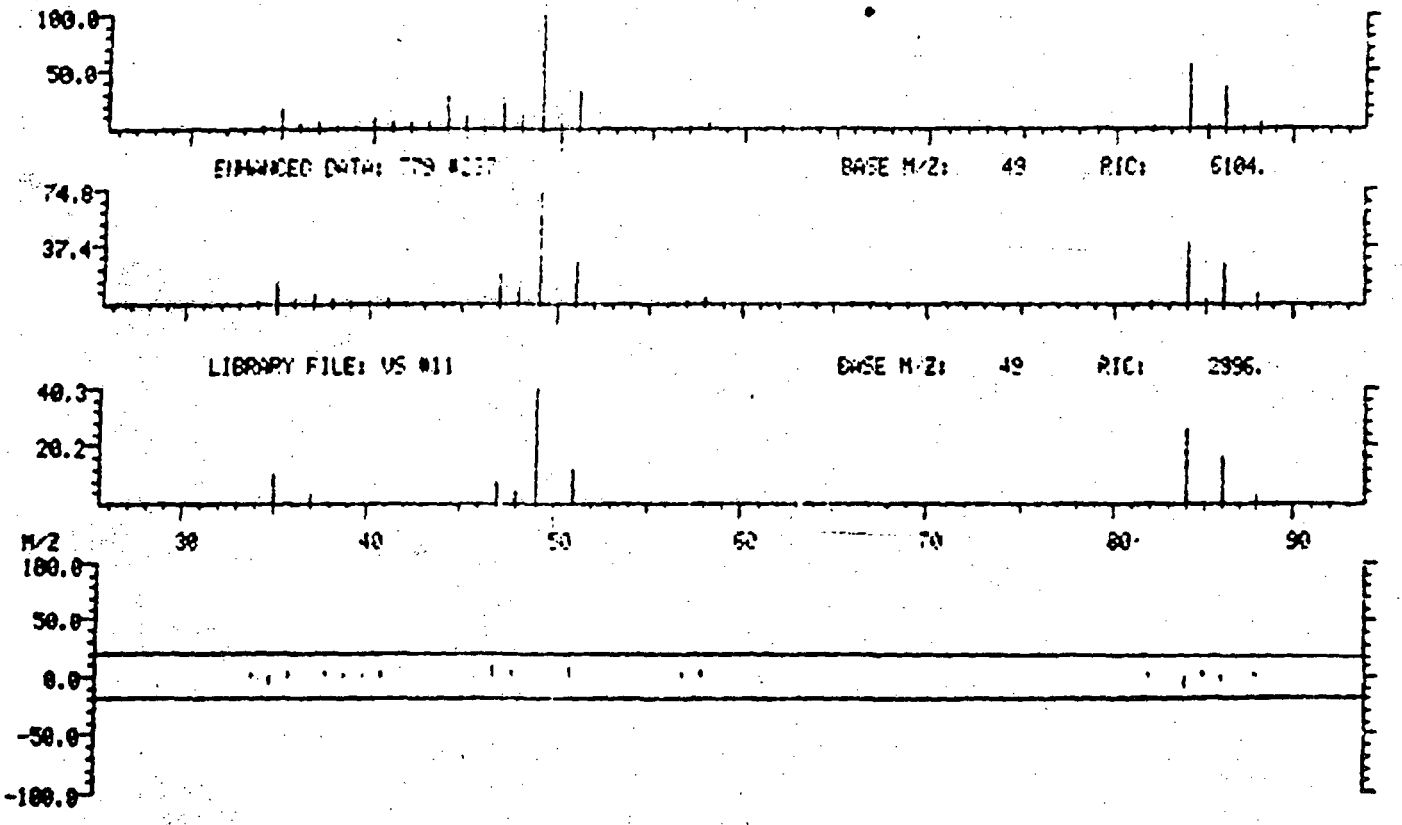


ABK000753

946010370

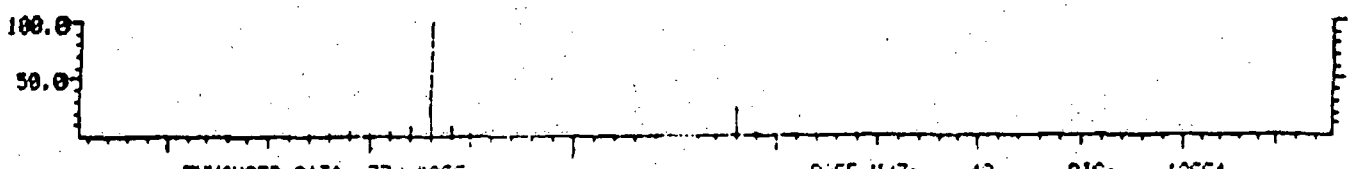
DATA FILE: 779 #237 LIBRARY FILE: VS #11
TARGET COMPOUND COMPARISON CALI: 779 #3
COMPOUND: C030 METHYLENE CHLORIDE

RAW DATA: 779 #237 BASE M/Z: 49 RIC: 9648.
07/16/90 17:31

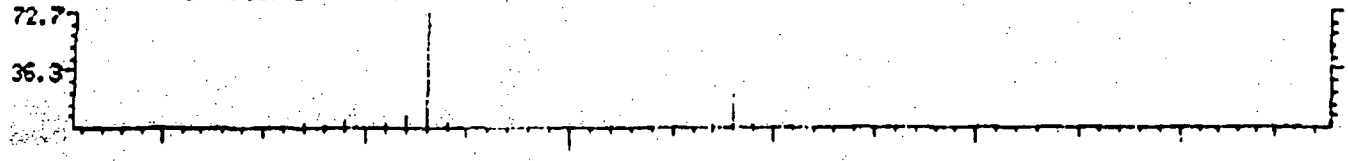


DATA FILE: 773 #266 LIBRARY FILE: US #12
TARGET COMPOUND COMPARISON CRLI: 772 #3
COMPOUND: C035 ACETONE

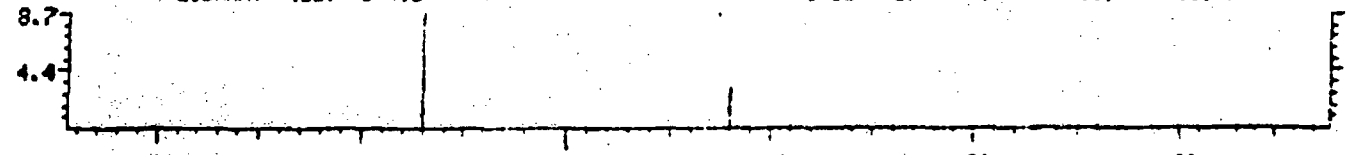
RAW DATA: 773 #266 BASE M/Z: 43 PIC: 18344.
07/16/90 17:31

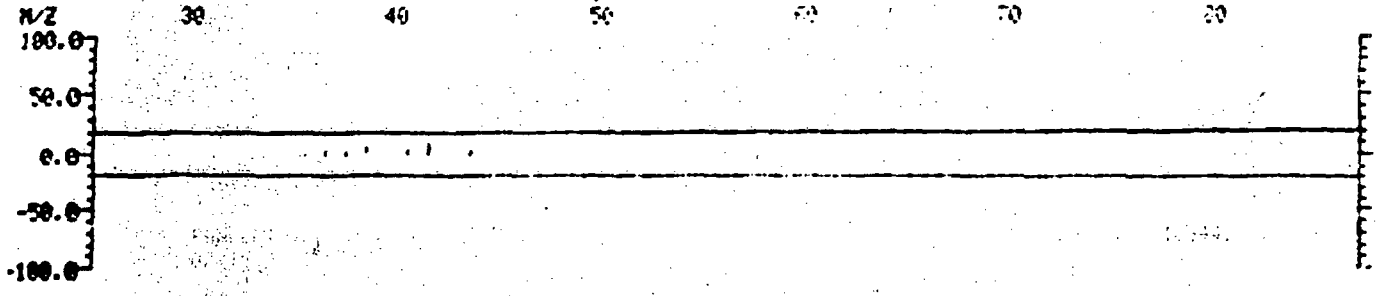


ENHANCED DATA: 773 #266 BASE M/Z: 43 PIC: 10664.



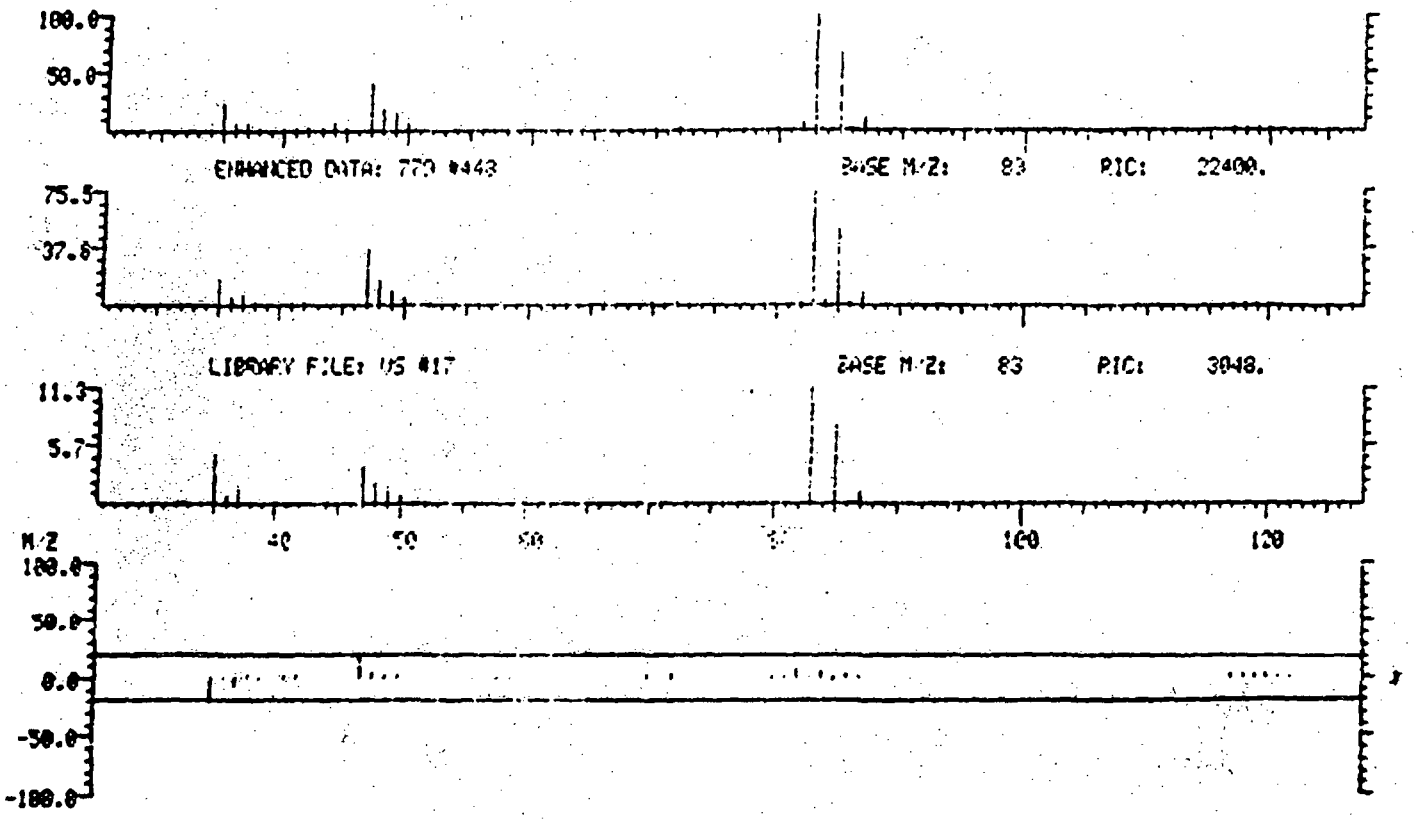
LIBRARY FILE: US #12 BASE M/Z: 43 PIC: 1330.





DATA FILE: 779 #448 LIBRARY FILE: US #17
TARGET COMPOUND COMPARISON CALI: 779 #3
COMPOUND: C050 CHLOROFORM

RAW DATA: 779 #448 BASE M/Z: 83 RIC: 29952.
07/16 90 17:21



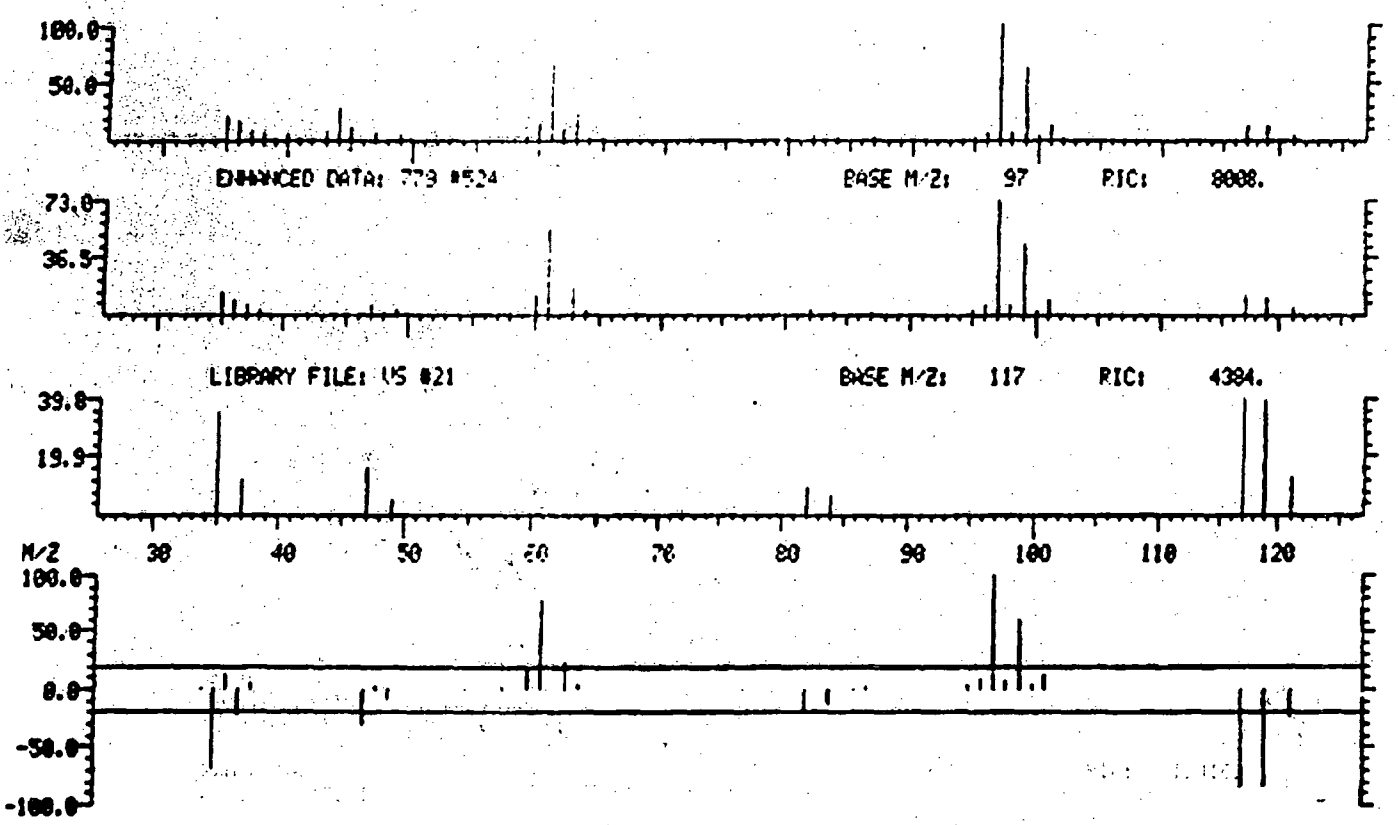
63

ABK000756

946010373

DATA FILE: 779 #524 LIBRARY FILE: US #21
TARGET COMPOUND COMPARISON CALI: 779 #3
COMPOUND: C120 CARBON TETRACHLORIDE

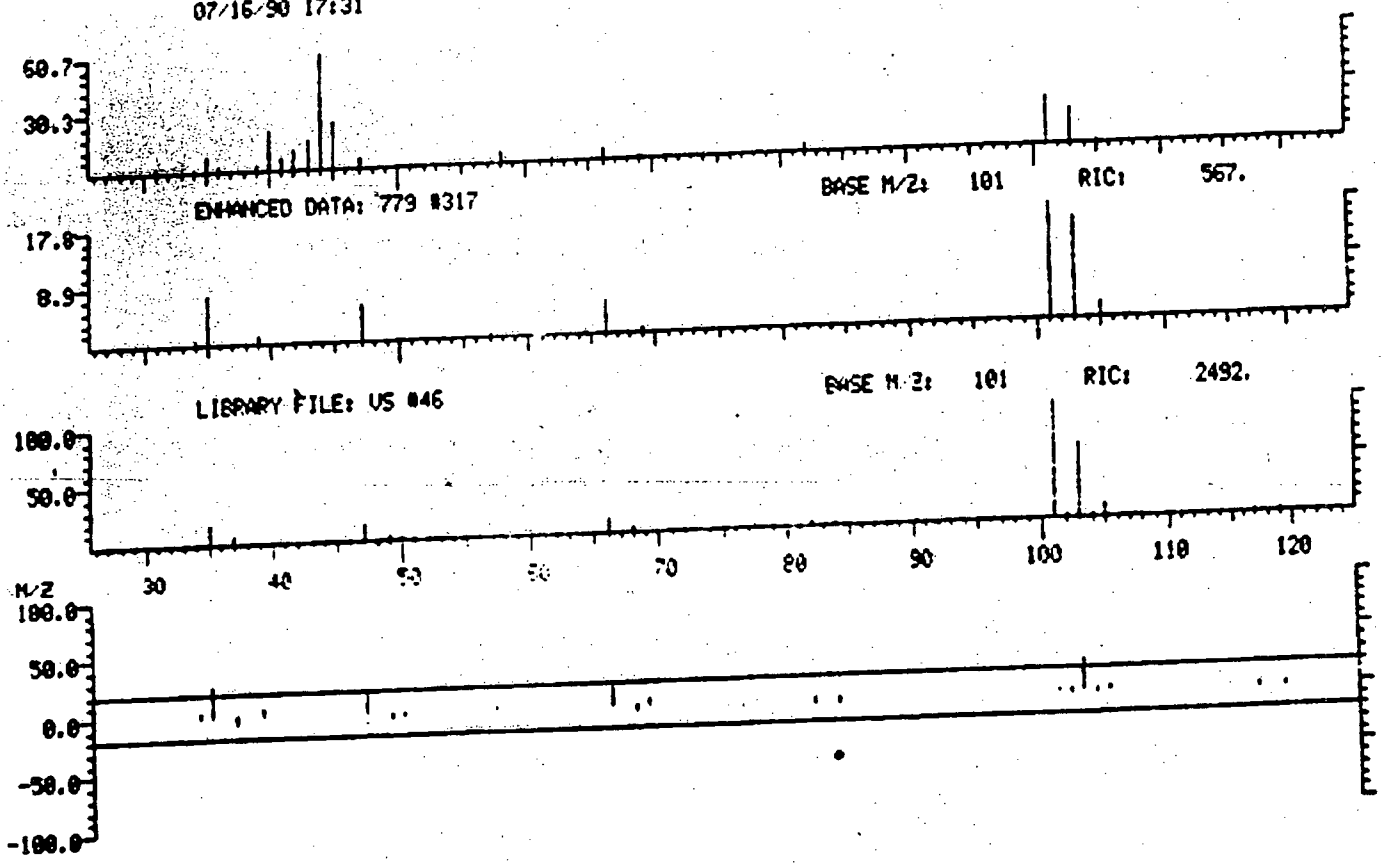
RAW DATA: 779 #524 BASE M/Z: 97 RIC: 12416.
07/16/90 17:31



946010374

ABK000757

DATA FILE: 779 #317
LIBRARY FILE: US #46
CAL1: 779 #3
TARGET COMPOUND COMPARISON
COMPOUND: TRICHLOROFLUOROMETHANE
BASE M/Z: 44 RIC: 2192.
RAW DATA: 779 #317
07/16/90 17:31



ABK000758

946010375

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/18/90 12:20:38

DATA FILE: 779

92

FILTER SCAN PARAMETERS		METHOD LIBRARY & LISTS	
MAX. NUMBER TICS:	10	TIC I.S. LIBRARY:	LIBRARYVV
11-TABLE ENTRIES:	528	NBS SEARCH PROC :	SERLIB
SCAN TOLERANCE :	2	PEAK FINDER PROC:	VOME
MIN. RIC HT. [%]:	10	TCA I.S. LL :	VL
FIRST SCAN :	21	FILE NAME LIST :	TCAREF2
LAST SCAN :	1450		
TIC THRESHOLD :	600		

TARGET COMPOUND ANALYSIS.

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
15	3	18

FILTER PROCESSING

	<----------REJECT PEAKS					---------->	
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
15	0	0	1	12	0	13	2

TIC PROCESSING.

NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME [BEFORE TIC THRESHOLD]
1	729	882	939	86	PENTANE, 3-METHYL-
2	1414	152	792	142	2-PROPENOIC ACID, 2-METHYL-, B

ABK000759

946010376

Quantitation Report File 779 03

Data: 779.TI
07/16/90 17:31:00
Sample: SS-3017
Cmds.: WPB-PE3
Formula:
Submitted by: LW

Instrument: FINN
Analyst: JFK

Weight: 0.000
Acct. No.

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	CAS #	Name	
1	0-00-0	C101 BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	0-00-0	C110 D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	0-00-0	C120 D5 CHLOROBENZENE	*INTERNAL STANDARD*
4	96-14-0	PENTANE, 3-METHYL-	
~~5~~	~~0-00-0~~	~~UNKNOWN~~	

No	m/z	Scan	Time	Fnt	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	365	9 08	1	1 000	A BB	627206	50.000 UG/ML	30.93
2	TOT	775	19 21	2	1 000	A BB	523351	50.000 UG/ML	30.93
3	TOT	966	24 11	3	1 000	A BB	790508	50.000 UG/ML	30.93
4	TOT	729	18.15	2	0 943	A BB	86854	8.298	5 13
5	TOT	1416	35 27	3	1 466	A BB	53057	3 358	2.08

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10 44	0 85	1.000	1 00	50 00	50 00	1.000	1 000	1.00
2	14 00	1 38	1.000	1 00	50.00	50.00	1.000	1.000	1 00
3	21 47	1 11	1.000	1 00	50 00	50 00	1 000	1 000	1 00
4					8 30	1 00	8.298	1 000	8 30
5					~~3 36~~	1 00	3.358	1 000	3 36

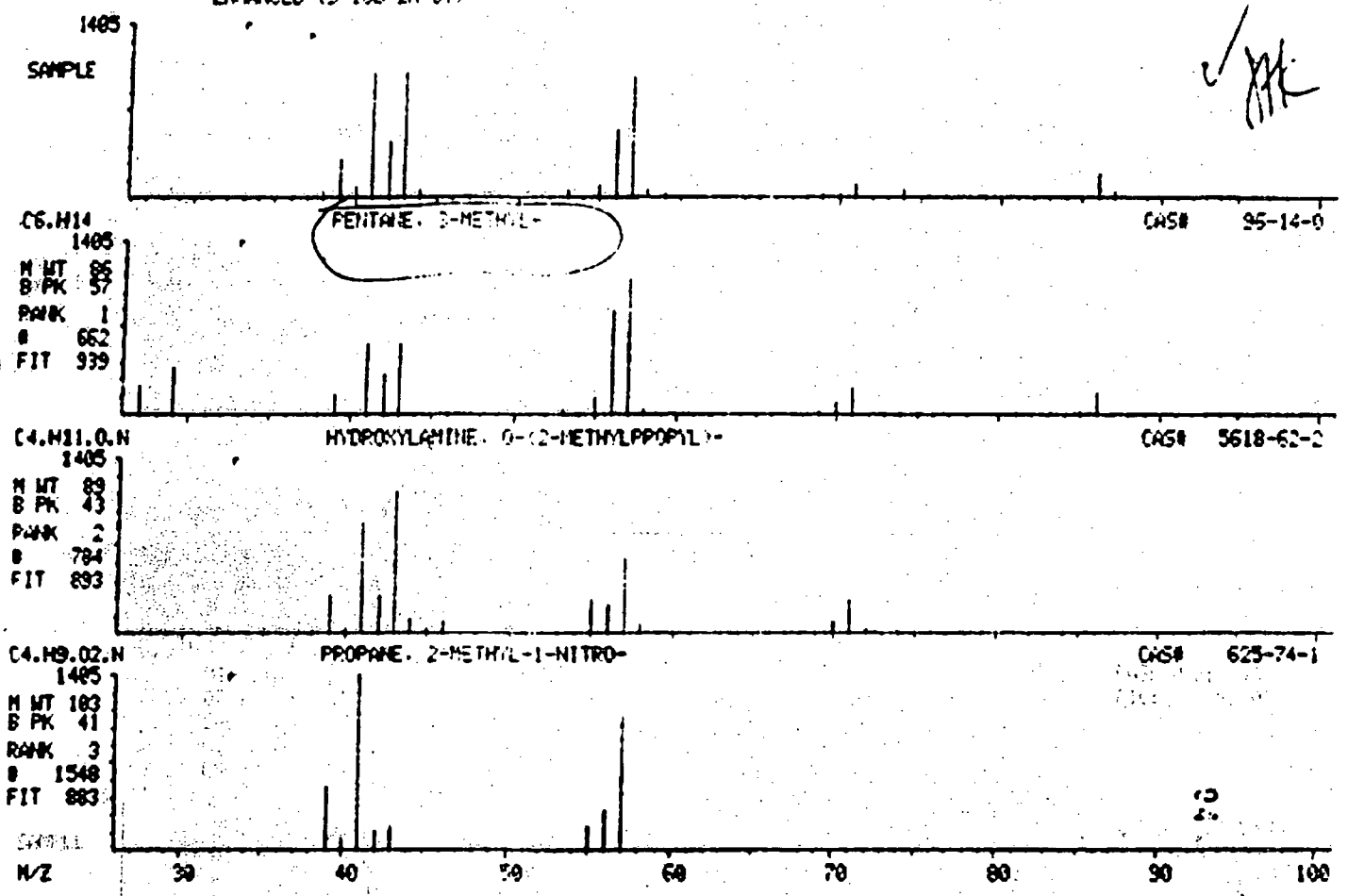
ABK000760

946010377

MID LIBRARY SEARCH (LIBRARY/NB)
07/16/90 17:31:00 + 18:15
SAMPLE: SS-3017
CONDS.: WPB-PE3
ENHANCED (S 15B 2N 0T)

DATA: 779 # 729
CAL1: 779 # 3

BASE M/Z: 43
RIC: 9280.



ABK000761

946010378

RAW DATA

FOR

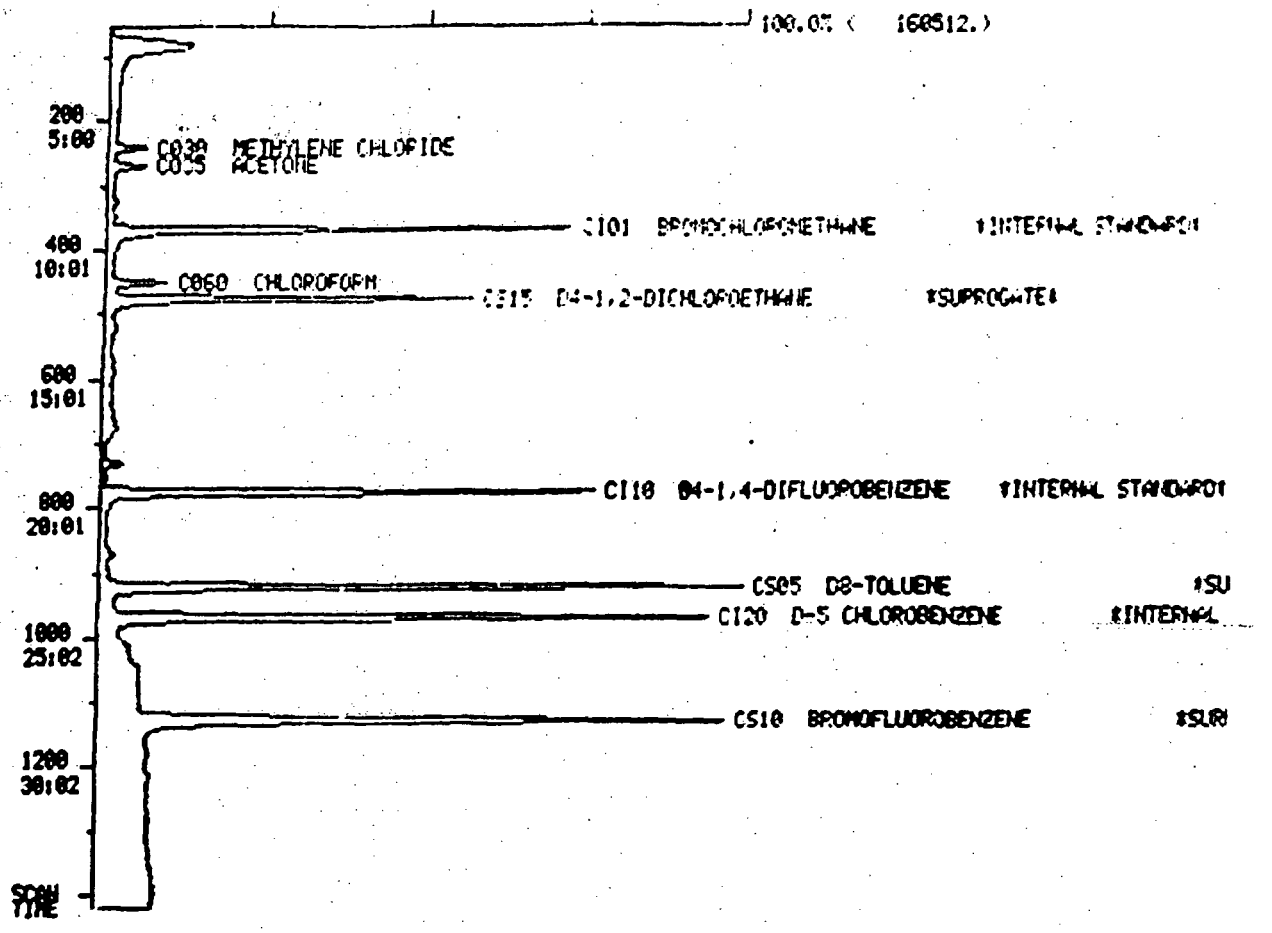
WATER SAMPLES

DATA FOR

SAMPLE VBLK

DATA FROM FILE: 785 SCANS 50 TO 1413 ACQUIRED: 07/17/90 12:31:08
CALI: 785 #3

SAMPLE: UBLK
CONDS.:



ABK000764

946010381

Quantitation Report File 785

Data. 785.TI
07/17/90 12:31:00
Sample: VBLK
Conds.:
Formula: Instrument: FINN Weight: 0.000
Submitted by JFK Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

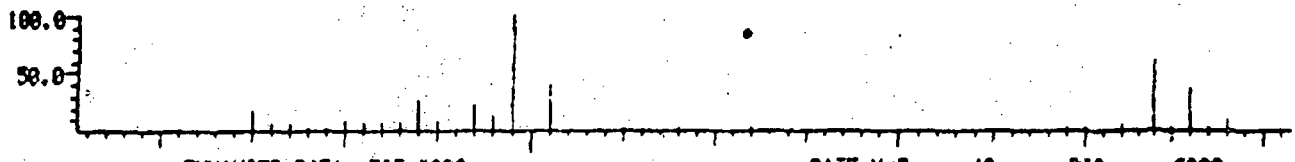
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	

No	Name
48	2-CHLOROETHYL VINYL ETHER

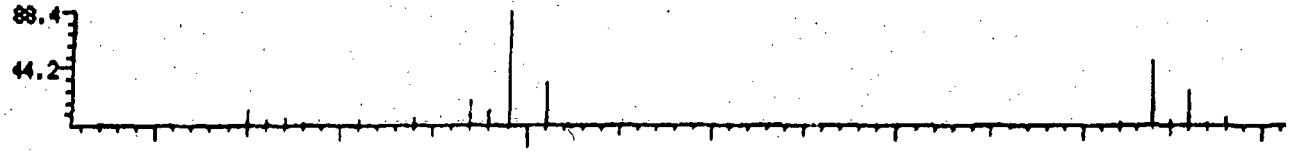
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	365	9:08	1	1.000	A BB	91223	50.000 UG/L	15.55
2	114	772	19:19	2	1.000	A BB	326972	50.000 UG/L	15.55
3	117	965	24:09	3	1.000	A BB	304557	50.000 UG/L	15.55
4	65	473	11:50	1	1.296	A BB	218158	47.900 UG/L	14.90
5	98	918	22:59	3	0.951	A BB	393960	40.816 UG/L	12.69
6	95	1125	28:10	3	1.166	A BB	320509	44.368 UG/L	13.80
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	238	5:57	1	0.652	A BB	11472	2.357 UG/L	0.73
12	43	265	6:38	1	0.726	A BB	38521	32.676 UG/L	10.16
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	448	11:13	1	1.227	A BB	29532	3.467 UG/L	1.08
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 785 #238 LIBRARY FILE: VP #11
TARGET COMPOUND COMPARISON CALI: 785 #3
COMPOUND: C030 METHYLENE CHLORIDE

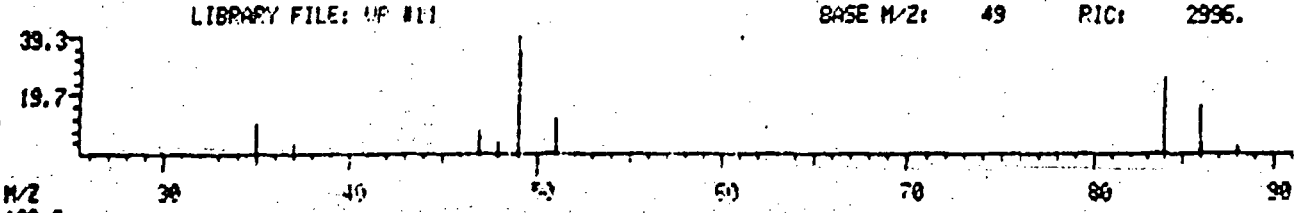
RAW DATA: 785 #238 BASE M/Z: 49 RIC: 9952.
07/17/90 12:31

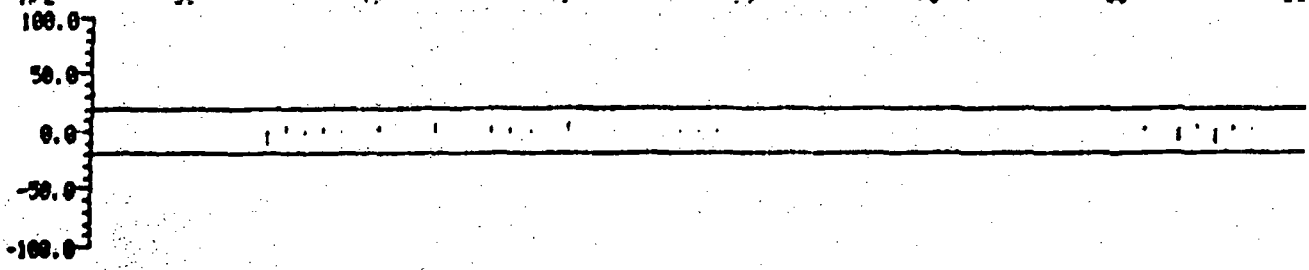


ENHANCED DATA: 785 #238 BASE M/Z: 49 RIC: 6888.



LIBRARY FILE: VP #11 BASE M/Z: 49 RIC: 2996.



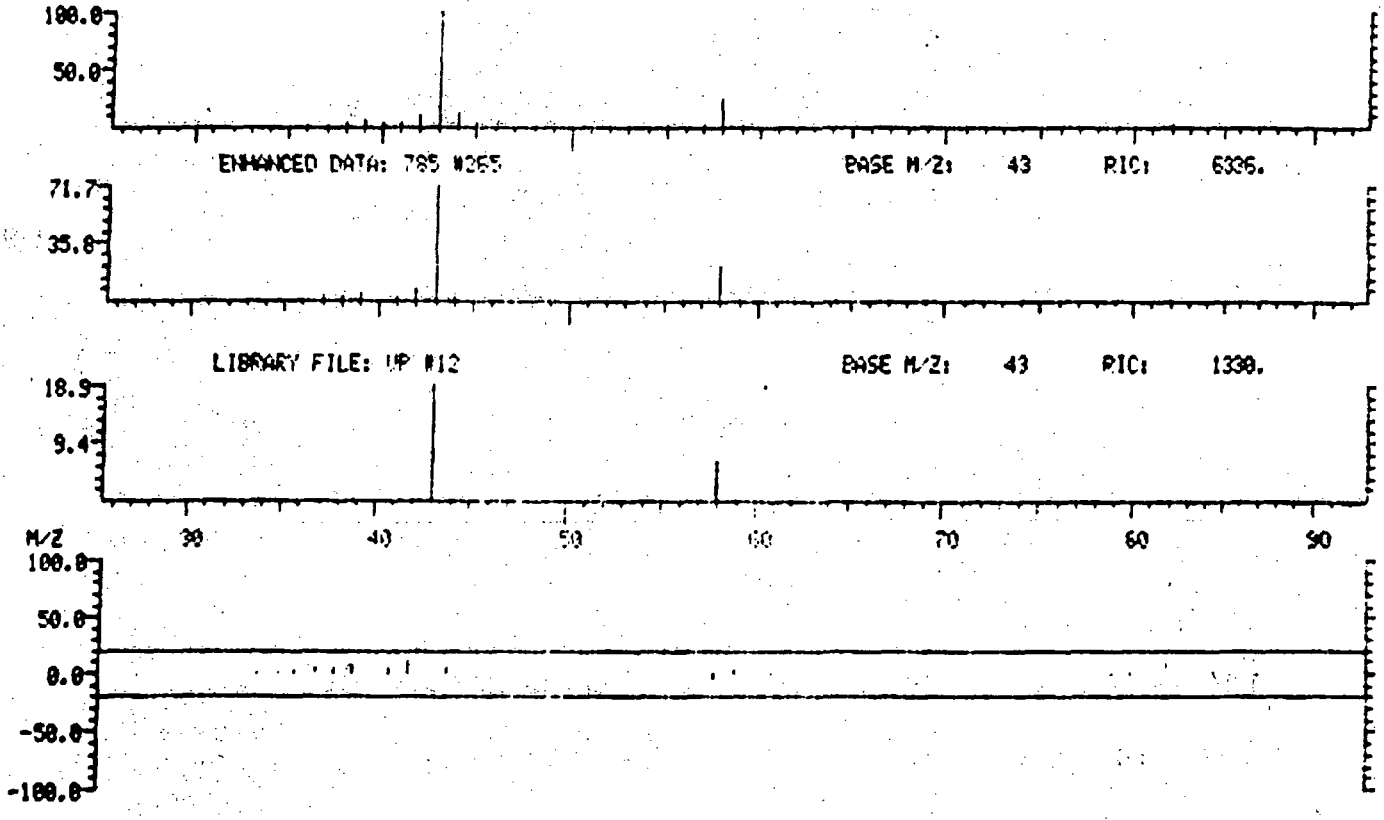


ABK000767

946010384

DATA FILE: 785 #265 LIBRARY FILE: UP #12
TARGET COMPOUND COMPARISON CALI: 785 #3
COMPOUND: C035 ACETONE

RAW DATA: 785 #265 BASE M/Z: 43 RIC: 9968.
07/17/90 12:31



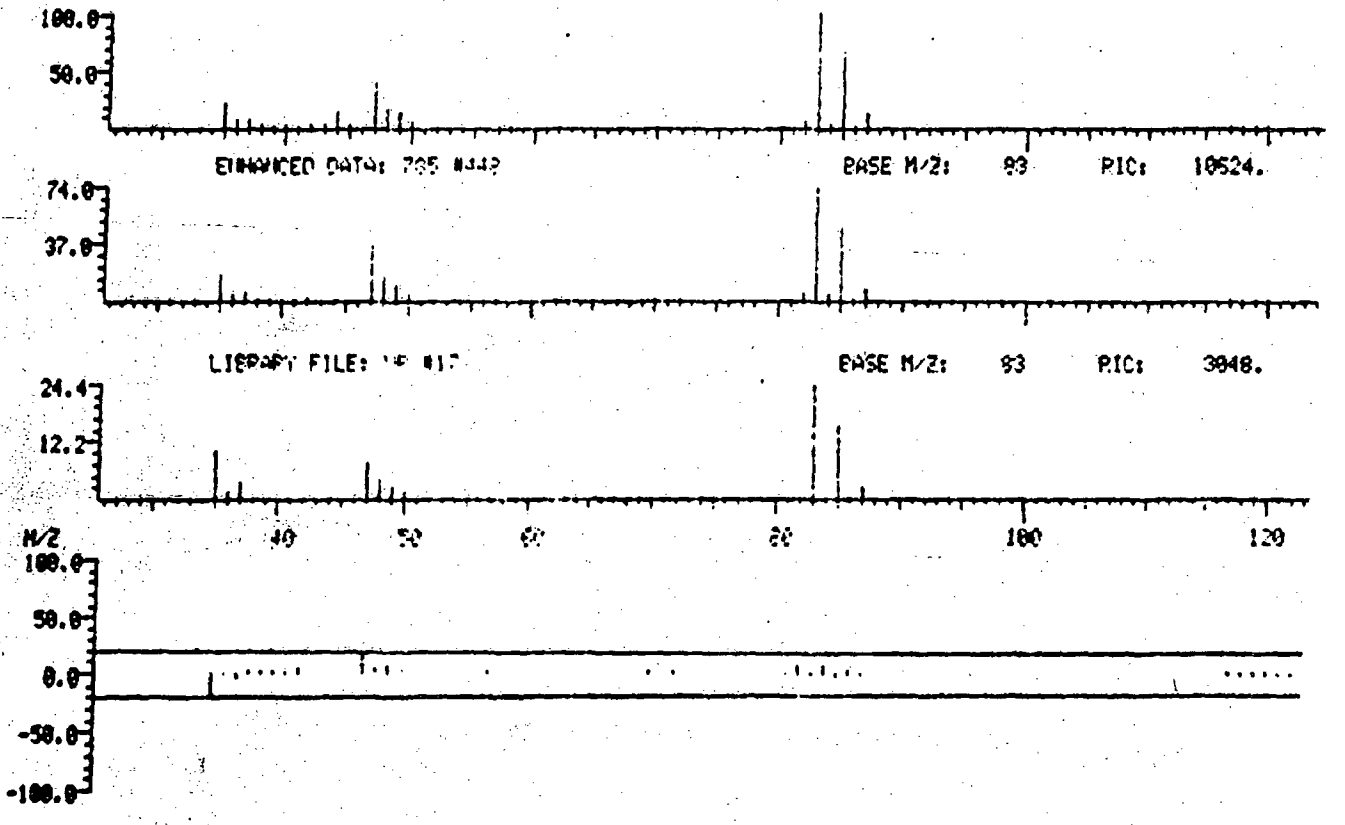
ICI

ABK000768

946010385

DATA FILE: 785 #448 LIBRARY FILE: UP #17
TARGET COMPOUND COMPARISON CALI: 785 #3
COMPOUND: C050 CHLOROFORM

RAW DATA: 785 #448 BASE M/Z: 83 RIC: 15280.
07/17/90 12:31



PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/27/90 11:21:04

103

DATA FILE: 785

FILTER SCAN PARAMETERS		METHOD LIBRARY & LISTS	
MAX. NUMBER TICS:	10	TIC I.S. LIBRARY:	LIBRARYW
11-TABLE ENTRIES:	528	NBS SEARCH PROC :	SERLIB
SCAN TOLERANCE	2	PEAK FINDER PROC:	VOME
MIN. RIC HT [%]	10	TCA I.S. LL :	VL
FIRST SCAN	21	FILE NAME LIST :	TCAREF2
LAST SCAN	1450		
TIC THRESHOLD	600		

TARGET COMPOUND ANALYSIS

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING

	<----------REJECT PEAKS---------->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
9	0	0	1	8	0	9	0

NO UNKNOWN PEAKS TO BE IDENTIFIED

ABK000770

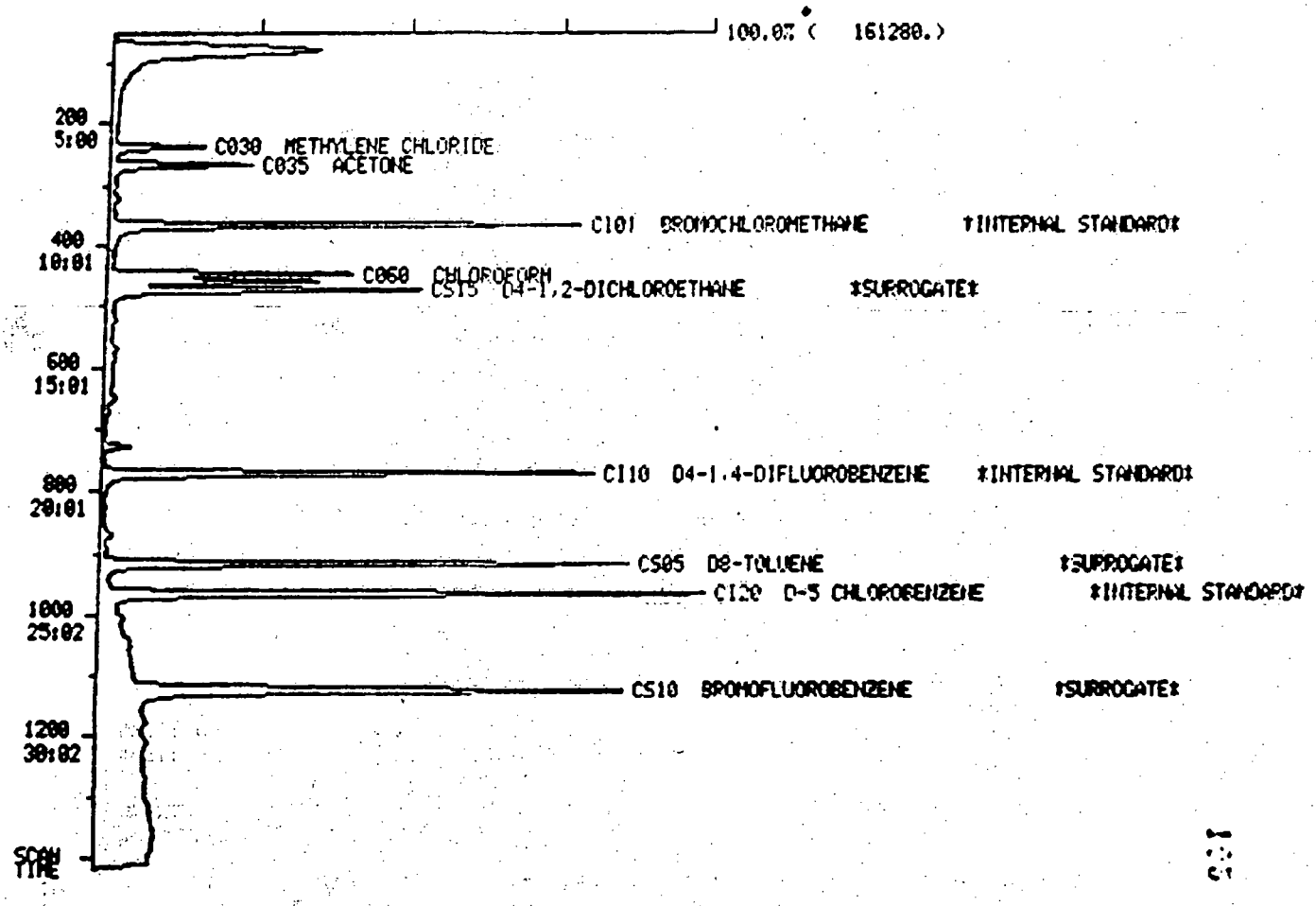
946010387

DATA FOR

SAMPLE TB 10

DATA FROM FILE: 787 SCANS 50 TO 1418 ACQUIRED: 07/17/90 15:25:00
CALI: 787 #3

SAMPLE: TB-3004
CONDS.: WPB-TB10



ABK000772

946010389

Quantitation Report File: 787

Date: 787.TI
07/17/90 16:25:00
Sample: TB-3004
Conds.: WPB-TB10
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole RL

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	

ABK000773

946010390

No	Name
48	2-CHLOROETHYL VINYL ETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Rght)	Amount	%Tot
1	128	364	9:07	1	1.000	A BB	82899.	50.000 UG/L	10.28
2	114	769	19.15	2	1.000	A BB	347096.	50.000 UG/L	10.28
3	117	962	24:05	3	1.000	A BB	233768	50.000 UG/L	10.28
4	65	471	11:47	1	1.294	A BB	193826.	46.831 UG/L	9.63
5	98	915	22:54	3	0.951	A BB	340687	45.985 UG/L	9.46
6	95	1121	28:04	2	1.165	A BB	282945	51.016 UG/L	10.49
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	236	5.54	1	0.648	A BB	31593.	7.141 UG/L	1.47
12	43	264	6.36	1	0.725	A BB	177781.	165.946 UG/L	34.12
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	446	11.10	1	1.225	A BB	150439.	19.436 UG/L	4.00
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
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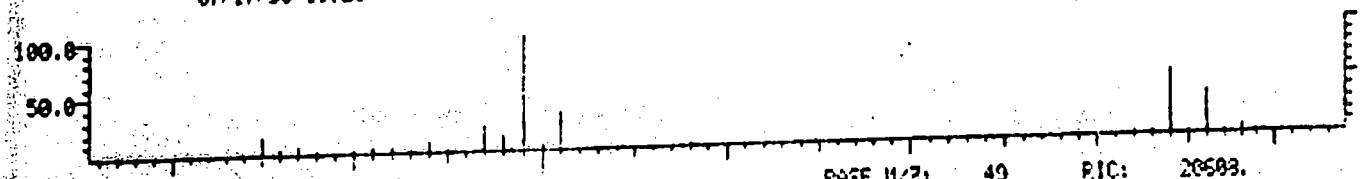
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 787 #236
TARGET COMPOUND COMPARISON
COMPOUND: C030 METHYLENE CHLORIDE

LIBRARY FILE: [illegible] #11
CALI: 787 #3

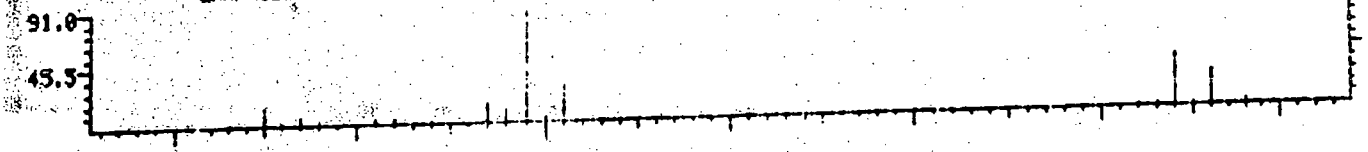
RAW DATA: 787 #236
07/17/90 15:25

BASE M/Z: 49 RIC: 25888.



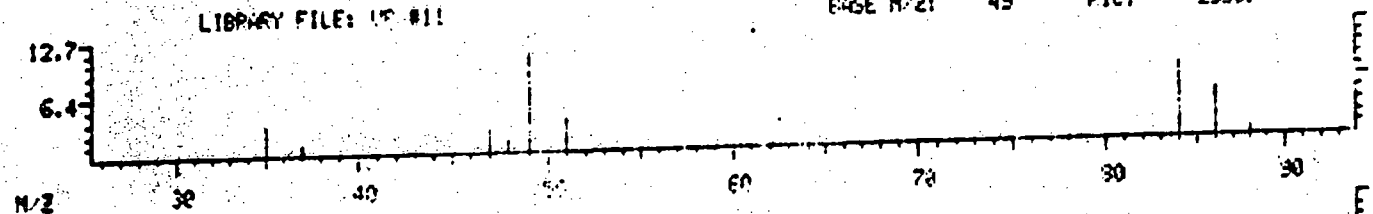
ENHANCED DATA: 787 #236

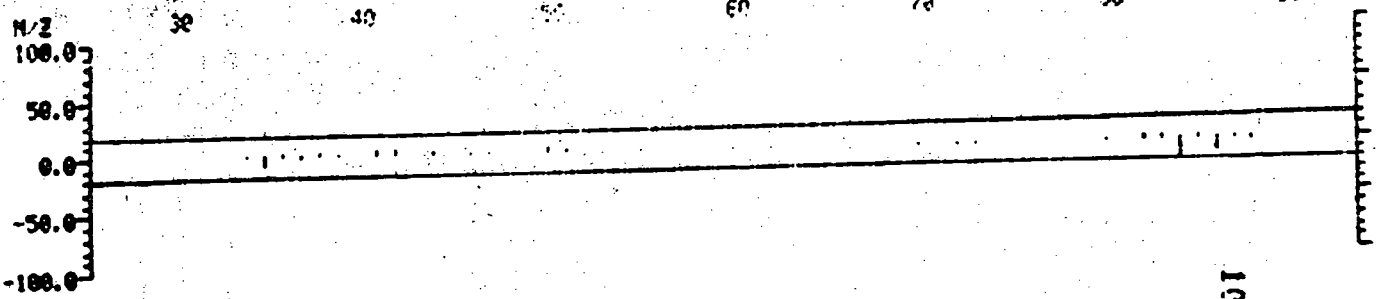
BASE M/Z: 49 RIC: 20503.



LIBRARY FILE: [illegible] #11

BASE M/Z: 49 RIC: 2336.





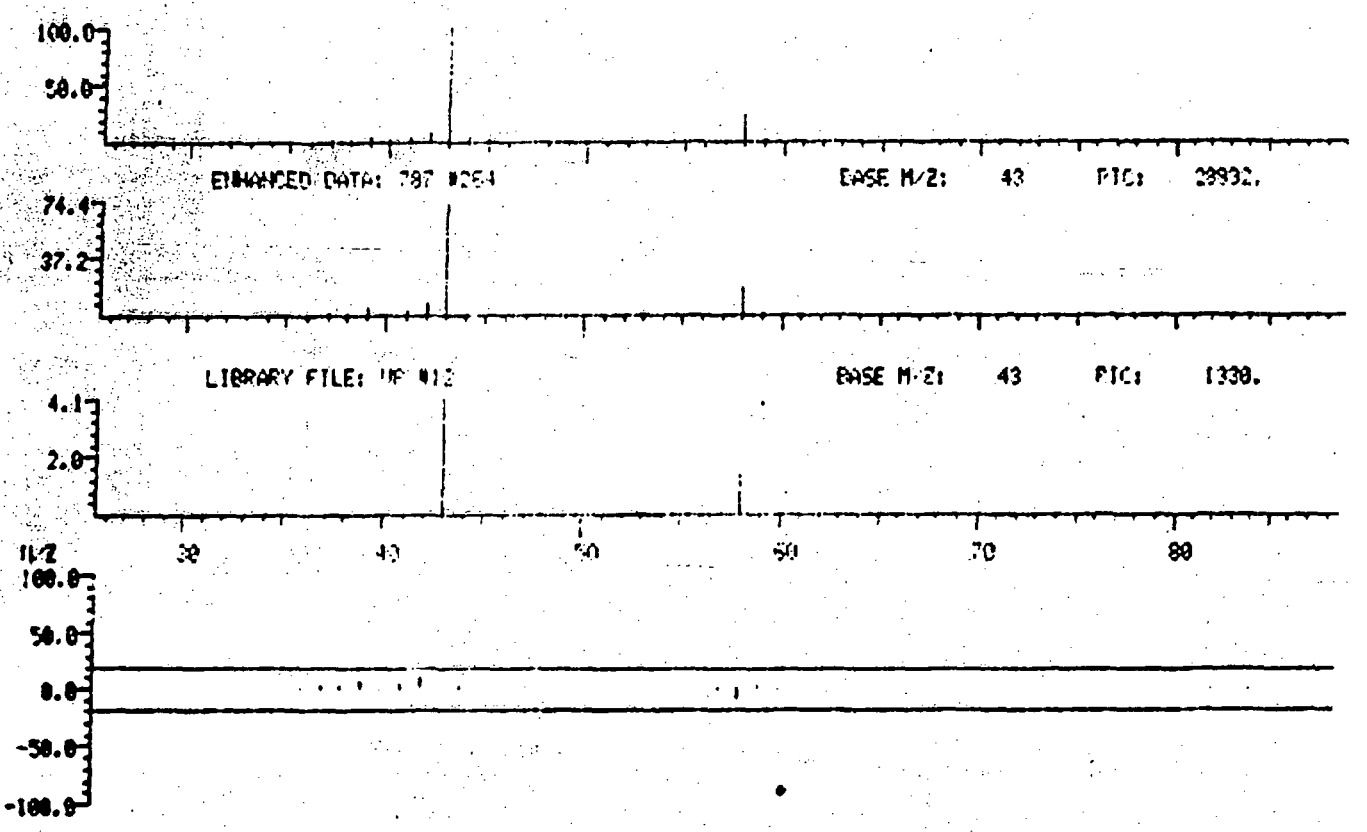
108

ABK000775

946010392

DATA FILE: 787 #264 LIBRARY FILE: UP #12
TARGET COMPOUND COMPARISON CALI: 787 #3
COMPOUND: C035 METHANE

RAW DATA: 787 #264 BASE M/Z: 43 PIC: 33848.
07/17/90 16:25

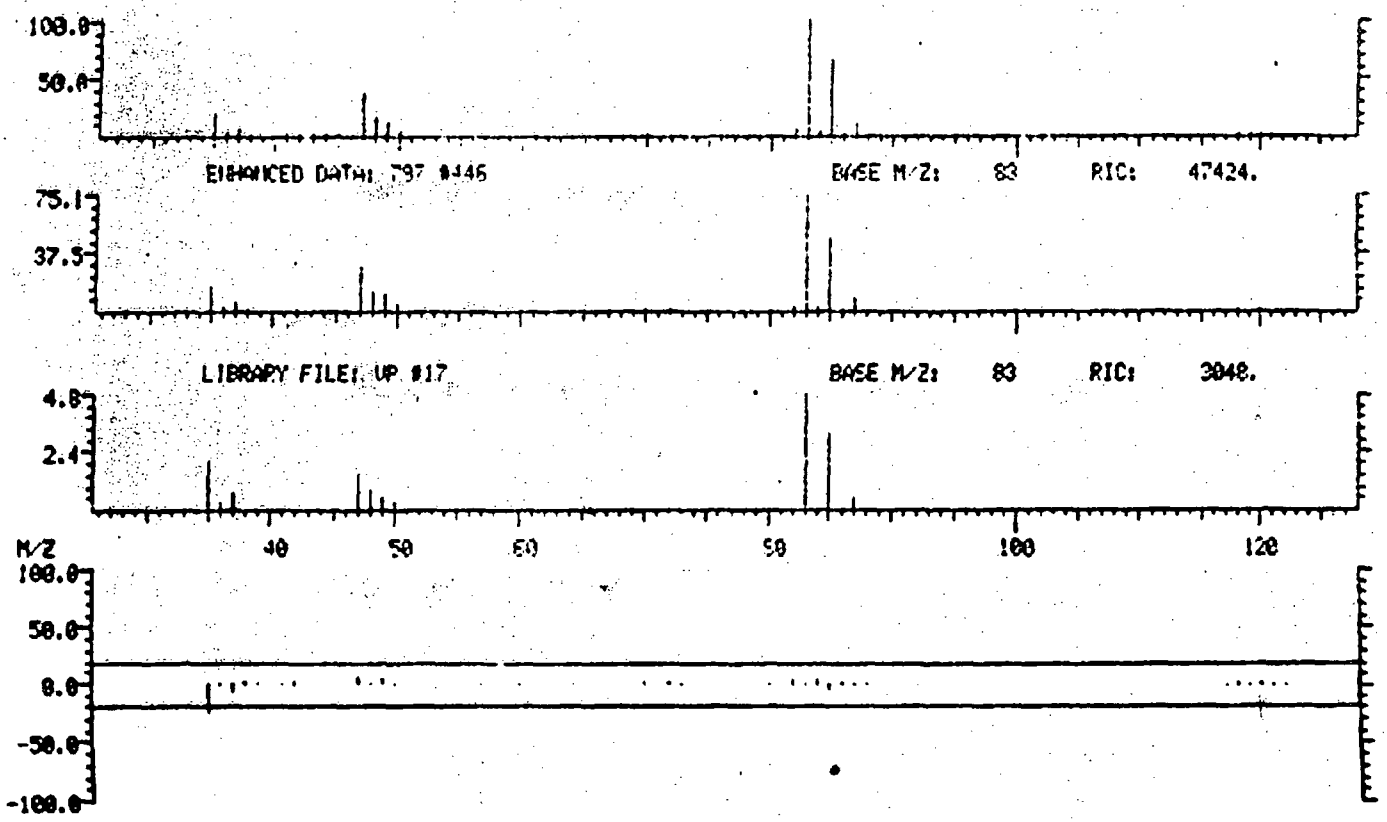


DATA FILE: 787 #446
TARGET COMPOUND COMPARISON
COMPOUND: C060 CHLOROFORM

LIBRARY FILE: UP #17
CALI: 787 #3

RAW DATA: 787 #446
07/17/90 16:25

BASE M/Z: 83 RIC: 66176.



946010394

ABK000777

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/27/90 11:28:07

DATA FILE: 787

111

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	10
11-TABLE ENTRIES:	528
SCAN TOLERANCE	2
MIN. RIC HT. (%)	10
FIRST SCAN	21
LAST SCAN	1450
TIC THRESHOLD	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYVV
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	VL
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING

TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	REJECT PEAKS: < MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
14	0	0	3	9	0	12	2

TIC PROCESSING

NO	SCAN#	PURITY	FIT	MW	COMPOUND NAME (BEFORE TIC THRESHOLD)
~~1~~	~~78~~	~~445~~	~~976~~	~~42~~	~~CYCLOPROPANE (DGT)~~ JK
2	457	922	998	184	ETHANE, 1,1,2-TRICHLORO-1,2,2-

ABK000778

946010395

Quantitation Report File 787 112

Data: 787.TI
07/17/90 16:25:00
Sample: TB-3004
Conds.: WPB-TB10
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	CAS #	Name	
1	0-00-0	C101 BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	0-00-0	C110 D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	0-00-0	C120 D-5 CHLOROBENZENE	*INTERNAL STANDARD*
~~4~~	~~0-00-0~~	~~UNKNOWN~~ JFK Below 10% of IS AREA	
5	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	364	9.02	1	1.000	A BB	873554	50.000	UG/ML	29.12
2	TOT	769	19.15	2	1.000	A BB	727236	50.000	UG/ML	27.12
3	TOT	962	24.05	3	1.000	A BB	1096770	50.000	UG/ML	29.12
4	TOT	75	1.53	1	0.206	A BB	40225	2.302		1.34
5	TOT	457	11.26	1	1.255	A VB	338608	19.380		11.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R Fac(L)	Ratio
1	10:44	0.85	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	14:00	1.38	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	21:47	1.11	1.000	1.00	50.00	50.00	1.000	1.000	1.00
~~4~~					~~2.30~~	~~1.00~~	~~2.302~~	~~1.000~~	~~2.30~~ JFK
5					19.38	1.00	19.380	1.000	19.38

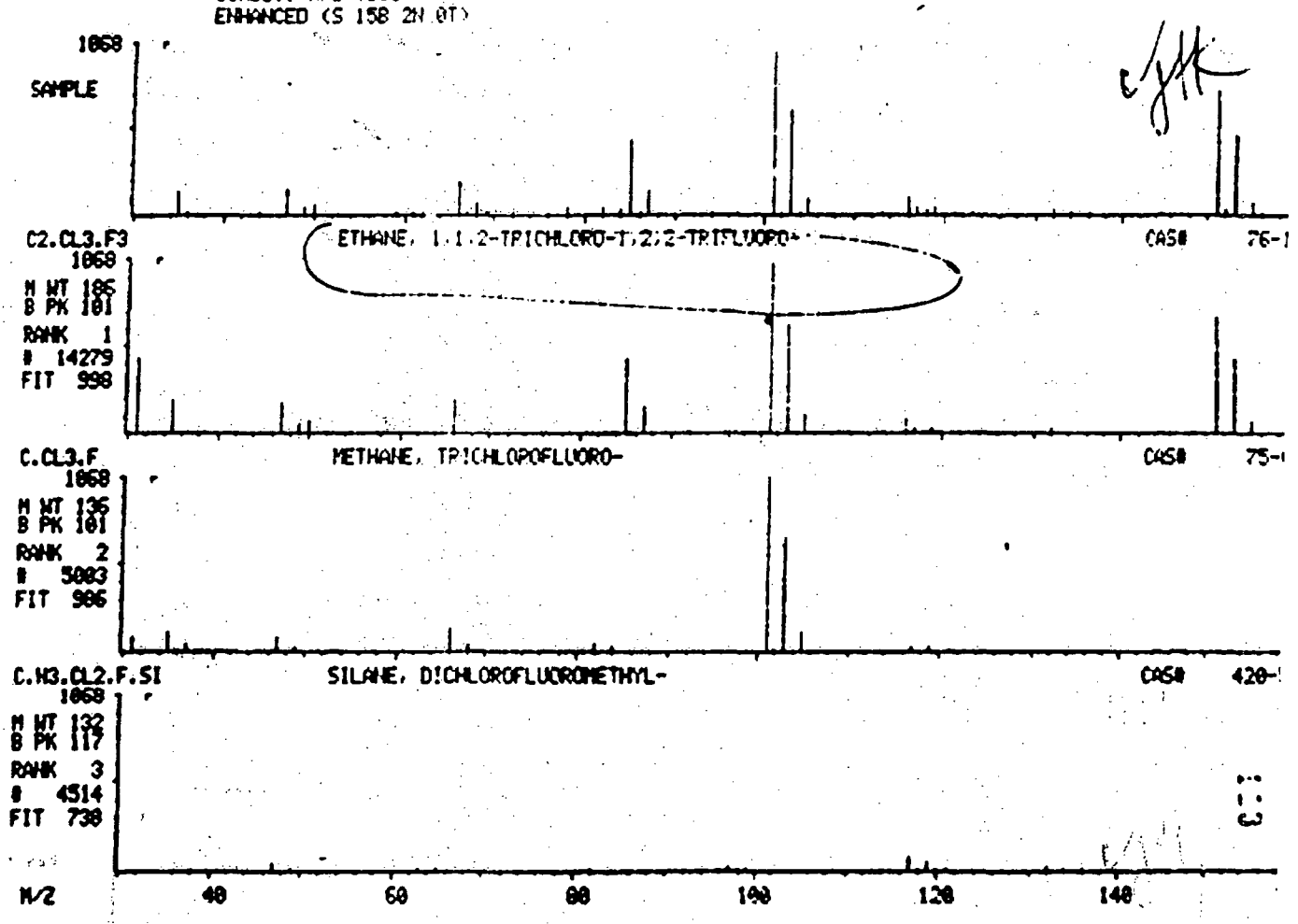
ABK000779

946010396

MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 16:25:00 + 11:25
SAMPLE: TB-3004
CONDS.: WPB-TB10
ENHANCED (S 158 2N 0T)

DATA: 787 # 457
CALI: 787 # 3

BASE M/Z: 101
RIC: 41664.



946010397

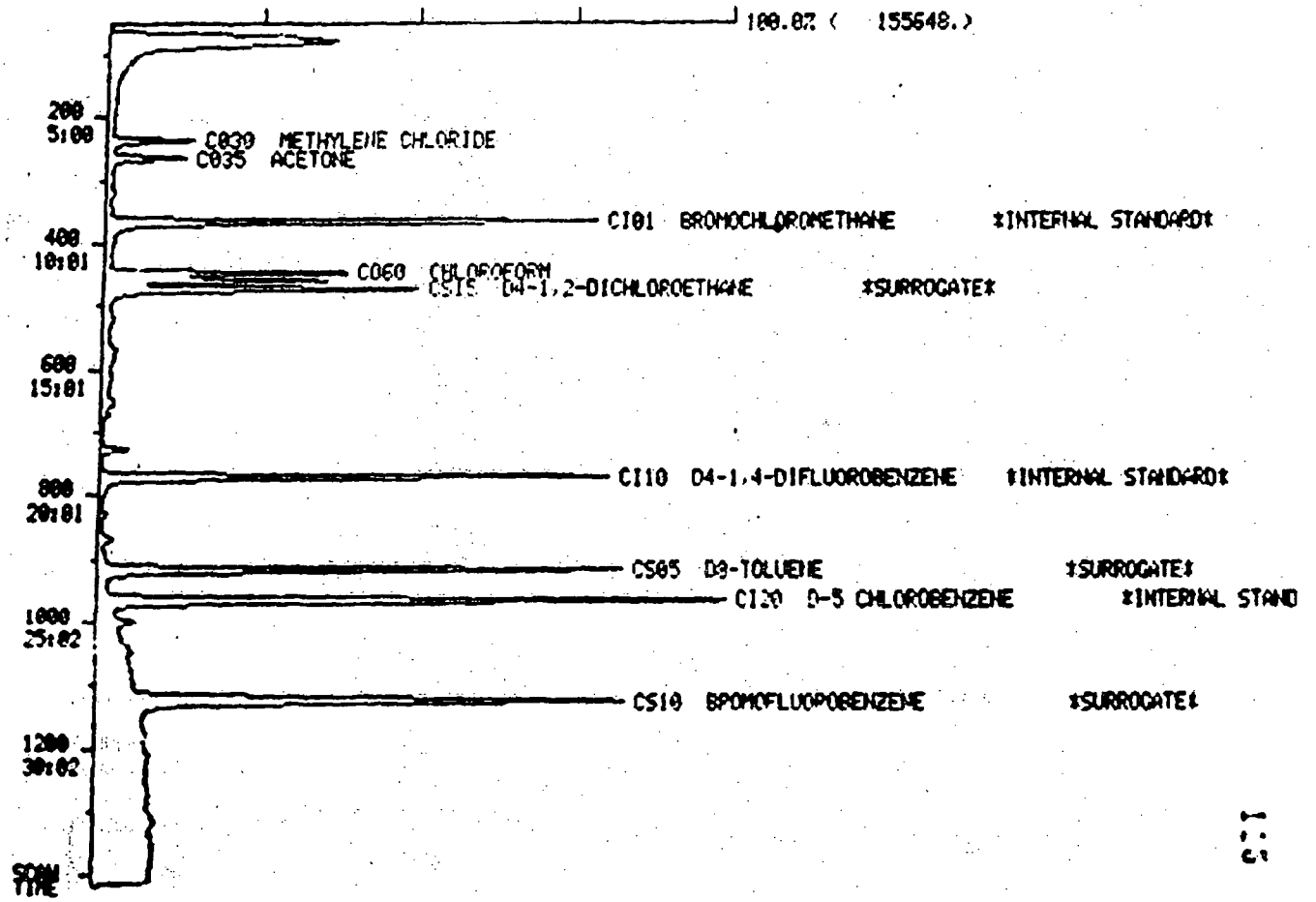
ABK000780

DATA FOR

SAMPLE FB11

DATA FROM FILE: 788 SCANS 50 TO 1418 ACQUIRED: 07/17/90 17:15:00
CALI: 788 #3

SAMPLE: FB-3005
CONDS.: WPB-FB11



946010399

ABK000782

Quantitation Report File 788 1:6

Data: 788.TI
07/17/90 17:15:00
Sample: FB-3005
Conds.: WPB-FB11
Formula: Instrument: FINN Weight: 0.000
Submitted by: LW Analyst: JFK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

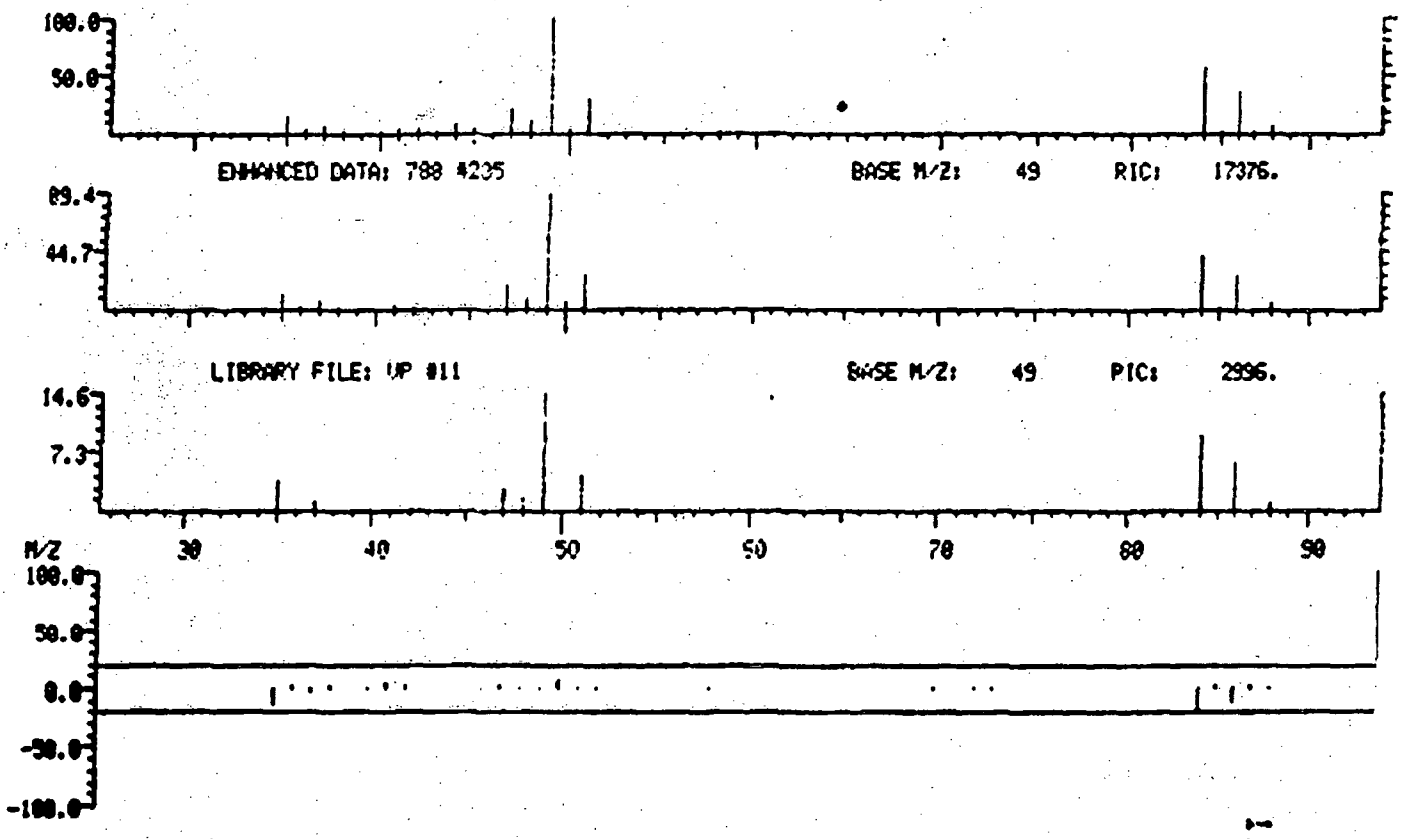
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	CI20	D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE	*SURROGATE*
5	CS05	D8-TOLUENE	*SURROGATE*
6	CS10	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C040	CARBON DISULFIDE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C125	VINYL ACETATE	
23	C130	BROMODICHLOROMETHANE	
24	C140	1,2-DICHLOROPROPANE	
25	C143	CIS-1,3-DICHLOROPROPENE	
26	C150	TRICHLOROETHENE	
27	C155	DIBROMOCHLOROMETHANE	
28	C160	1,1,2-TRICHLOROETHANE	
29	C165	BENZENE	
30	C172	TRANS-1,3-DICHLOROPROPENE	
31	C180	BROMOFORM	
32	C205	4-METHYL-2-PENTANONE	
33	C210	2-HEXANONE	
34	C220	TETRACHLOROETHENE	
35	C225	1,1,2,2-TETRACHLOROETHANE	
36	C230	TOLUENE	
37	C235	CHLOROBENZENE	
38	C240	ETHYL BENZENE	
39	C245	STYRENE	
40		M-XYLENE	
41		O- & P-XYLENE	
42		1,3-DICHLOROBENZENE	
43		1,2-DICHLOROBENZENE	
44		1,4-DICHLOROBENZENE	
45		METHYL TERT BUTYLETHER	
[illegible]		[illegible]	

No	Name
48	2-CHLOROETHYL VINYL ETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	363	9:05	1	1.000	A BB	76563	50.000 UG/L	12.51
2	114	770	19:16	2	1.000	A BB	331036	50.000 UG/L	12.51
3	117	962	24:05	3	1.000	A BB	238836	50.000 UG/L	12.51
4	65	471	11:47	1	1.298	A BB	183923	48.116 UG/L	12.04
5	98	915	22:54	3	0.951	A BB	314895	41.601 UG/L	10.41
6	95	1122	28:05	3	1.166	A BB	262772	46.373 UG/L	11.60
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	235	5:53	1	0.647	A BB	27820	6.809 UG/L	1.70
12	43	263	6:35	1	0.725	A BB	86637	87.563 UG/L	21.91
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	445	11:08	1	1.226	A BB	137551	19.242 UG/L	4.81
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

DATA FILE: 788 #235 LIBRARY FILE: UP #11
TARGET COMPOUND COMPARISON CALI: 788 #3
COMPOUND: C030 METHYLENE CHLORIDE

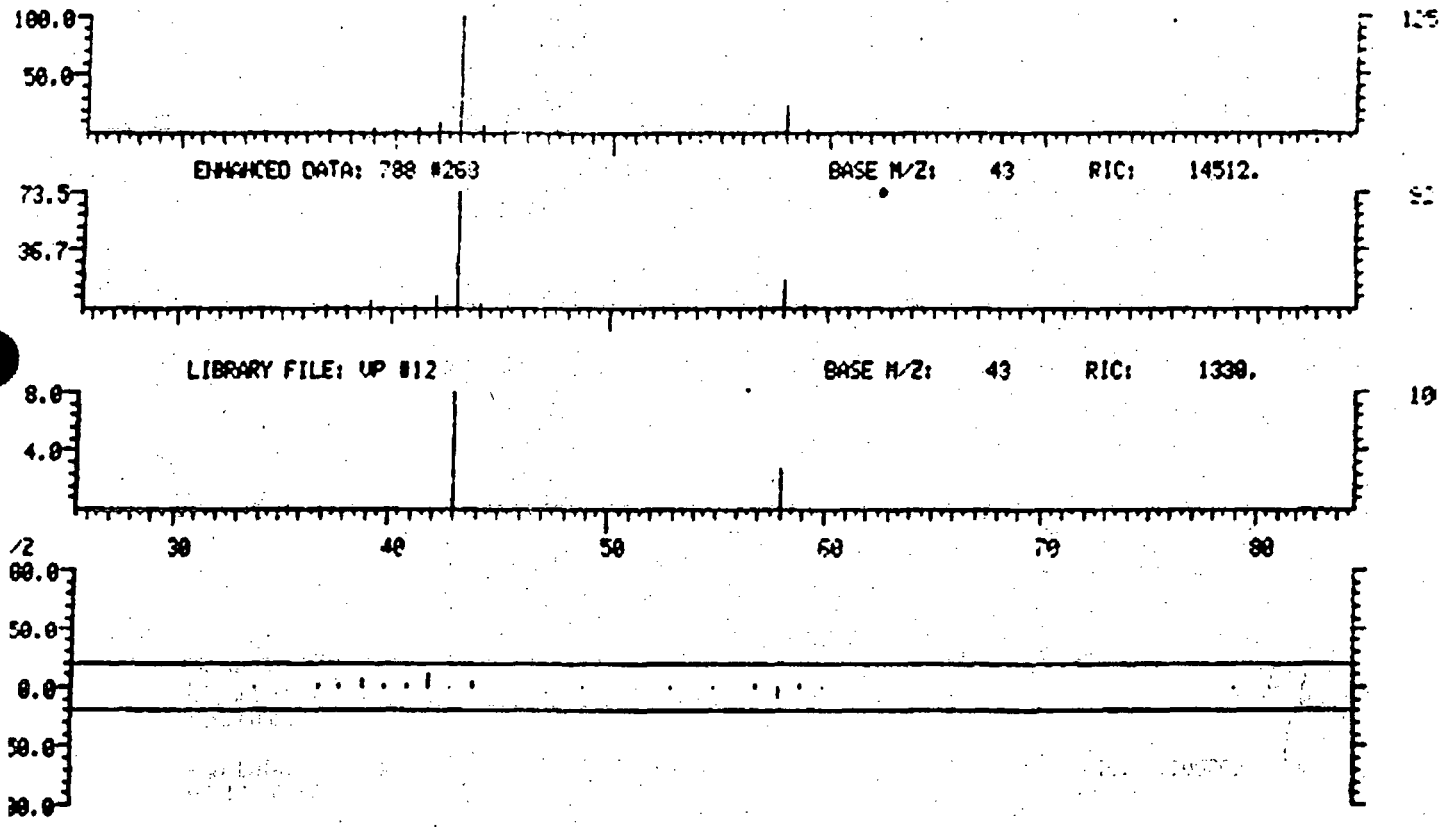
RAW DATA: 788 #235 BASE M/Z: 49 RIC: 22720.
07/17/90 17:15



1.3

DATA FILE: 788 #263 LIBRARY FILE: VP #12
TARGET COMPOUND COMPARISON CALI: 788 #3
COMPOUND: C035 ACETONE

RAW DATA: 788 #263 BASE M/Z: 43 RIC: 20576.
07/17/90 17:15

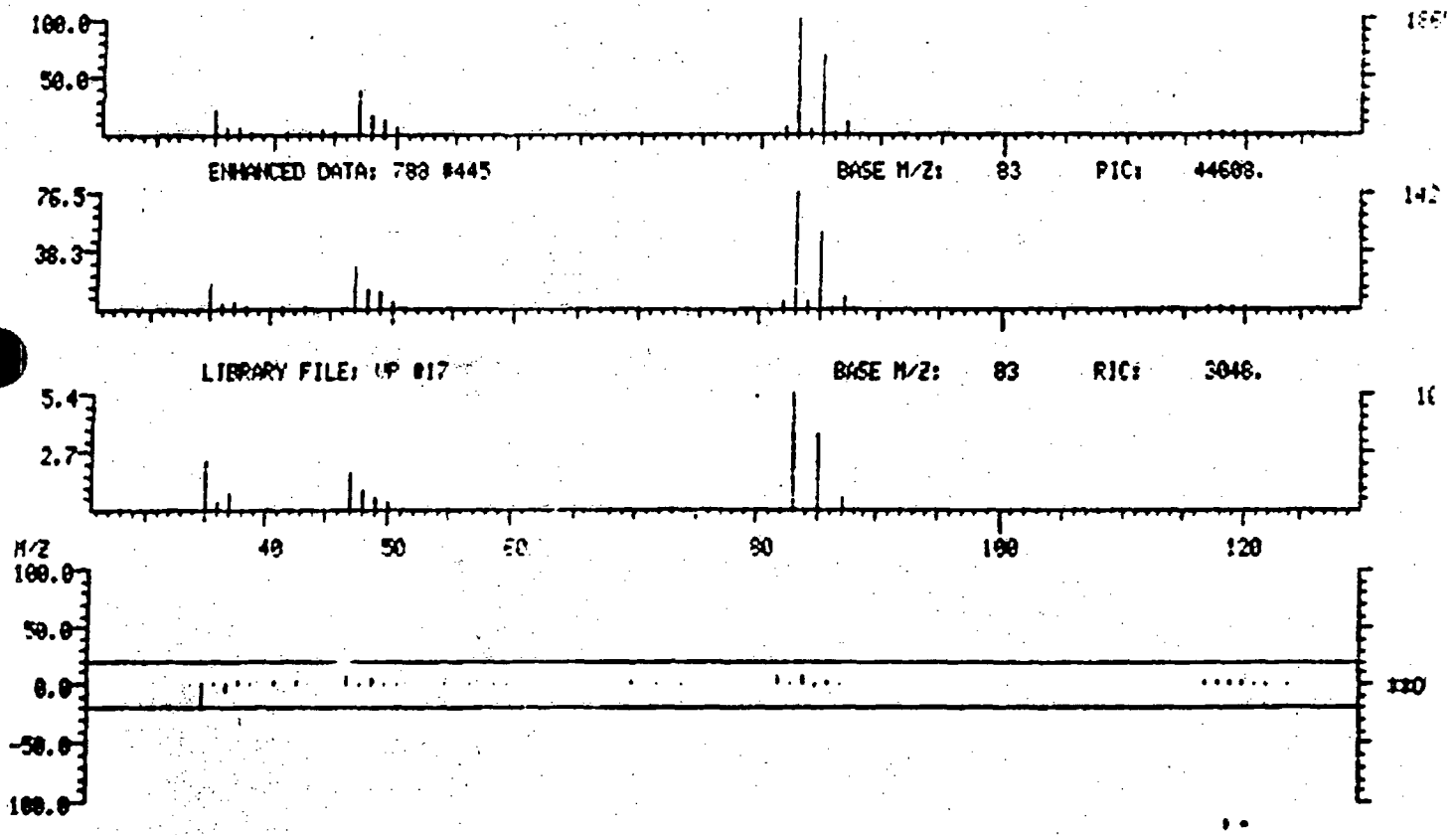


ABK000786

946010403

DATA FILE: 788 #445 LIBRARY FILE: UP #17
TARGET COMPOUND COMPARISON CALI: 788 #3
COMPOUND: C060 CHLOROFORM

RAW DATA: 788 #445 BASE M/Z: 83 RIC: 60352.
07/17/90 17:15



946010404

ABK000787

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 7/27/90 13:22 06

DATA FILE: 788

FILTER SCAN PARAMETERS		METHOD LIBRARY & LISTS	
MAX. NUMBER TICS	10	TIC I.S. LIBRARY:	LIBRARYVV
II-TABLE ENTRIES:	528	NBS SEARCH PROC :	SERLIB
SCAN TOLERANCE :	2	PEAK FINDER PROC:	VOME
MIN. RIC HT. (%):	10	TCA I.S. LL :	VL
FIRST SCAN	21	FILE NAME LIST	TCAREF2
LAST SCAN	1450		
TIC THRESHOLD :	600		

TARGET COMPOUND ANALYSIS

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
0	3	5

FILTER PROCESSING:

TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	REJECT PEAKS: MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
12	0	0	2	9	0	11	1

TIC PROCESSING:

NO	SCAN#	PURITY	FIT	MW	COMPOUND NAME (BEFORE TIC THRESHOLD)
1	457	916	998	186	ETHANE, 1,1,2-TRICHLORO-1,2,2-

946010405

ABK000788

Quantitation Report File 788

Data: 788.TI
07/17/90 17:15:00
Sample: FB-3005
Conds.: WPB-FB11
Formula:
Submitted by: LW

Instrument FINN
Analyst JFK

Weight 0.000
Acct No

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	CAS #	Name	
1	0-00-0	CI01 BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	0-00-0	CI10 D4-1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	0-00-0	CI20 D-5 CHLOROBENZENE	*INTERNAL STANDARD*
4	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	

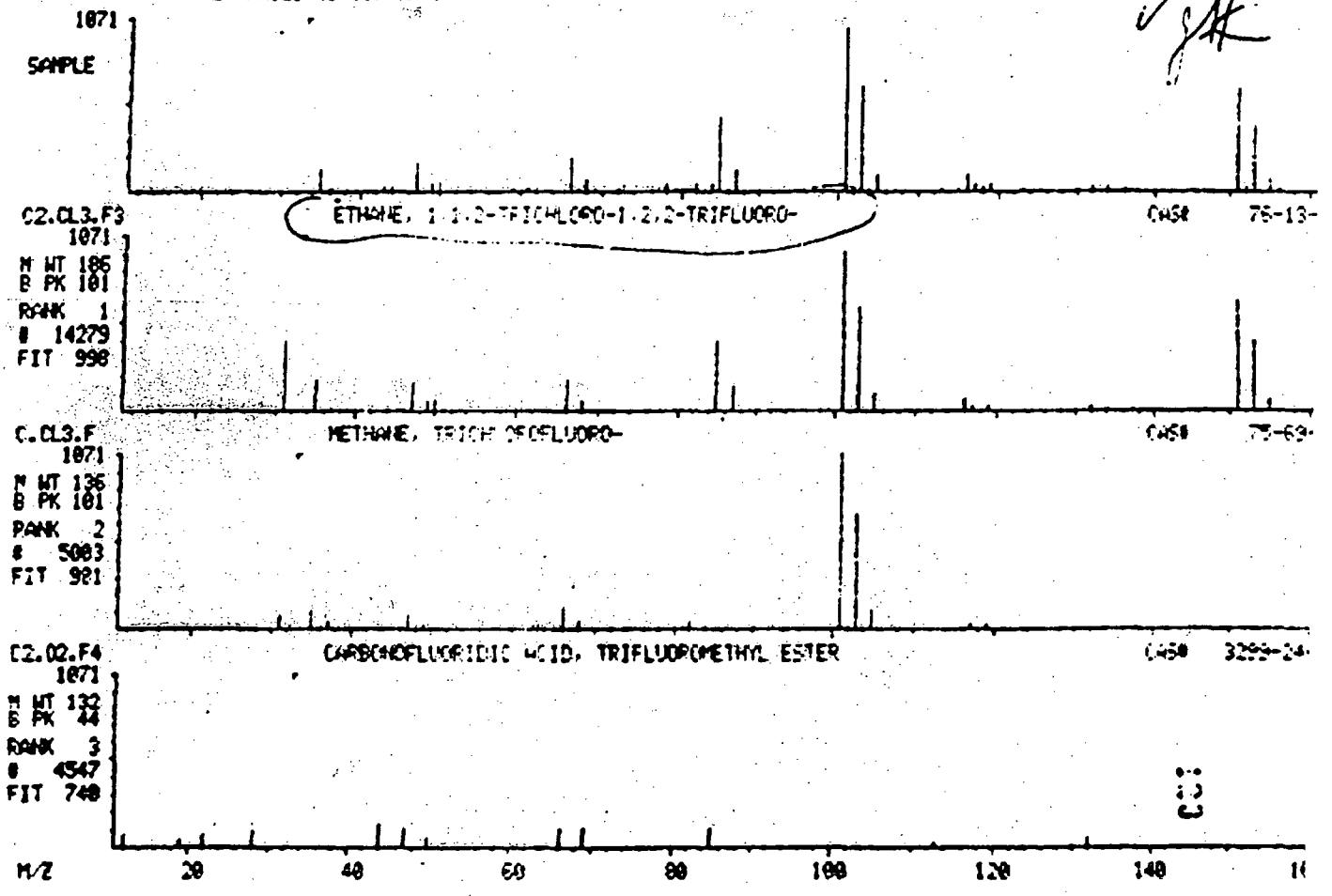
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	363	9:05	1	1.000	A BB	837471	50.000	UG/ML	29.55
2	TOT	770	19:16	2	1.000	A BB	697248	50.000	UG/ML	29.55
3	TOT	962	24:05	3	1.000	A BB	1056650	50.000	UG/ML	29.55
4	TOT	457	11:26	1	1.259	A VB	321252	19.180		11.34

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R Fac	R Fac(L)	Ratio
1	10:44	0.85	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	14:00	1.38	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	21:47	1.11	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4					19.18	1.00	19.180	1.000	19.18

MID LIBRARY SEARCH (LIBRARY:B)
07/17/90 17:15:00 + 11:25
SAMPLE: FB-3005
CONDS.: WPB-FB11
ENHANCED (S 15B 2N OT)

DATA: 788 # 457
CALI: 788 # 3

BASE M/Z: 101
RIC: 38016.



946010407

ABK000790

SURROGATE RECOVERY

AND

INTERNAL STANDARD CHECK

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, VOLATILE SOILS, LOW-LEVEL

DATAFILE: 764 ANALYSIS TIME: 07/13/90 13:24
STANDARD: 763 ANALYSIS TIME: 07/13/90 11:18
TUNEFILE: 762T ANALYSIS TIME: 07/13/90 11:00

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	121434.	104241.	116%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	419022.	361872.	116%	50% - 200%	
CI20	D-5 CHLOROBENZENE	383945.	323013.	119%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	365	366	2	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	771	773	3	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	965	966	2	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	47.4	50.0	95	70% - 121%	
CS05	D8-TOLUENE	47.8	50.0	96	81% - 117%	
CS10	BROMOFLUOROBENZENE	47.7	50.0	95	74% - 121%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD USEPA CLP, VOLATILE SOILS, LOW-LEVEL

DATAFILE: 769 ANALYSIS TIME: 07/13/90 18:30
STANDARD: 763 ANALYSIS TIME: 07/13/90 11:18
TUNEFILE: 762T ANALYSIS TIME: 07/13/90 11:00

****** INTERNAL STANDARD AREA CHECK ******

	INTERNAL STANDARD	DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	82568.	104241.	79%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	284077.	361872.	79%	50% - 200%	
CI20	D-5 CHLOROBENZENE	262056.	323013.	81%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

	INTERNAL STANDARD	DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	364	366	3	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	771	773	3	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	964	966	3	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

	SURROGATE	AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	54.3	50.0	109	70% - 121%	
CS05	D8-TOLUENE	53.1	50.0	106	81% - 117%	
CS10	BROMOFLUOROBENZENE	54.3	50.0	109	74% - 121%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, VOLATILE SOILS, LOW-LEVEL

DATAFILE: 775 ANALYSIS TIME 07/16/90 12:18
STANDARD: 774 ANALYSIS TIME 07/16/90 11:13
TUNEFILE: 773T ANALYSIS TIME 07/16/90 9:41

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	115783.	121825.	95%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	418555.	400508	105%	50% - 200%	
CI20	D-5 CHLOROBENZENE	380214.	349877.	109%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	366	366	0	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	773	772	2	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	966	966	0	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	52.7	50.0	105	70% - 121%	
CS05	D8-TOLUENE	49.9	50.0	100	81% - 117%	
CS10	BROMOFLUOROBENZENE	59.3	50.0	119	74% - 121%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, VOLATILE SOILS, LOW-LEVEL

DATAFILE: 777 ANALYSIS TIME: 07/16/90 15:15
STANDARD: 774 ANALYSIS TIME: 07/16/90 11:13
TUNEFILE: 773T ANALYSIS TIME: 07/16/90 9:41

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	102141.	121825.	84%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	363807	400508.	91%	50% - 200%	
CI20	D-5 CHLOROBENZENE	324218.	349877.	93%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	365	366	2	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	773	772	2	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	966	966	0	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	53.7	50.0	107	70% - 121%	
CS05	D8-TOLUENE	50.7	50.0	101	81% - 117%	
CS10	BROMOFLUOROBENZENE	57.7	50.0	115	74% - 121%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, VOLATILE SOILS, LOW-LEVEL

DATAFILE:	778	ANALYSIS TIME.	07/16/90	16:23
STANDARD:	774	ANALYSIS TIME:	07/16/90	11:13
TUNEFILE:	773T	ANALYSIS TIME:	07/16/90	9:41

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	96059.	121825	79%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	332997.	400508.	83%	50% - 200%	
CI20	D-5 CHLOROBENZENE	298397.	349877.	85%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	365	366	2	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	773	772	2	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	966	966	0	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	59.9	50.0	120	70% - 121%	
CS05	D8-TOLUENE	55.8	50.0	112	81% - 117%	
CS10	BROMOFLUOROBENZENE	59.9	50.0	120	74% - 121%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP VOLATILE SOILS: LOW-LEVEL

DATAFILE: 779 ANALYSIS TIME 07/16/90 17 31
STANDARD: 774 ANALYSIS TIME 07/16/90 11 13
TUNEFILE: 773T ANALYSIS TIME 07/16/90 9 41

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	67665	121825	56%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	243698	400508	61%	50% - 200%	
CI20	D-5 CHLOROBENZENE	224447	349877	64%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	365	366	2	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	773	772	2	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	966	966	0	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	47.0	50.0	94	70% - 121%	
CS05	D8-TOLUENE	57.0	50.0	114	81% - 117%	
CS10	BROMOFLUOROBENZENE	47.0	50.0	94	74% - 121%	

QUALITY CONTROL QUALITY ASSURANCE DATA

METHOD USEPA CLP VOLATILE WATER SAMPLE

131

DATAFILE 765 ANALYSIS TIME: 07/17/90 12:31
STANDARD 764 ANALYSIS TIME. 07/17/90 11:30
TUNEFILE 7837 ANALYSIS TIME: 07/17/90 9:30

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	91223	89124	102%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	326972	316041	103%	50% - 200%	
CI20	D-5 CHLOROBENZENE	304557	282226	108%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF [IN SEC]	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	365	365	0	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	772	772	0	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	965	965	0	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	51.6	50.0	104	76% - 114%	
CS05	D8-TOLUENE	45.2	50.0	90	88% - 110%	
CS10	BROMOFLUOROBENZENE	46.5	50.0	93	86% - 115%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP. VOLATILE WATER SAMPLE

DATAFILE: 787 ANALYSIS TIME: 07/17/90 16:25
STANDARD: 784 ANALYSIS TIME: 07/17/90 11:30
TUNEFILE: 783T ANALYSIS TIME: 07/17/90 9:30

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	82895	89124	93%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	347096	316041	110%	50% - 200%	
CI20	D-5 CHLOROBENZENE	233768	282226	83%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	364	365	2	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	769	772	5	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	962	965	5	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	50.6	50.0	101	76% - 114%	
CS05	D8-TOLUENE	50.5	50.0	102	88% - 110%	
CS10	BROMOFLUOROBENZENE	53.5	50.0	107	86% - 115%	

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, VOLATILE WATER SAMPLE

DATAFILE: 788 ANALYSIS TIME: 07/17/90 17:15
STANDARD: 784 ANALYSIS TIME: 07/17/90 11:30
TUNEFILE: 783T ANALYSIS TIME: 07/17/90 9:30

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD		DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
CI01	BROMOCHLOROMETHAN	76563.	89124.	86%	50% - 200%	
CI10	D4-1,4-DIFLUOROBE	331036.	316041.	105%	50% - 200%	
CI20	D-5 CHLOROBENZENE	238836.	282226.	85%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD		DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
CI01	BROMOCHLOROMETHAN	363	365	3	+/- 30 SECS	
CI10	D4-1,4-DIFLUOROBE	770	772	3	+/- 30 SECS	
CI20	D-5 CHLOROBENZENE	962	965	5	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE		AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
CS15	D4-1,2-DICHLOROETH	52.0	50.0	104	76% - 114%	
CS05	D8-TOLUENE	46.1	50.0	92	88% - 110%	
CS10	BROMOFLUOROBENZENE	48.6	50.0	97	86% - 115%	

TUNING INFORMATION

HAZARDOUS WASTE ENGINEERING CONSULTANTS INC.
ENVIRONMENTAL LABORATORY

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

CLIENT: HWEC
WHIPPANY PAPER BOARD

FILE ID: 762T Date: 07/13/90 Time: 11:00

Data Release Authorized By: J Gregory Kelly

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of Base Peak	24.6
75	30.0 - 60.0% of Base Peak	47.1
95	Base Peak, 100% Relative Abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 1.0% of Base Peak	0.9
174	Greater than 50.0% of Base Peak	61.7
175	5.0 - 9.0% of mass 174	4.0 (6.5)*
176	Greater than 95.0%, But less that 101.0% of mass 174	62.0 (100.4)*
177	5.0 - 9.0% of mass 176	3.9 (6.3)**

* value in parenthesis is % mass 174
** value in parenthesis is % mass 176

This performance tune applies to the following samples, blanks and standards

SAMPLE ID	FILE ID	LAB ID	DATE	TIME
	763	VSTD 50	07/13/90	11:18
	764	VBLK	07/13/90	13:24
PE2	769	3014	07/13/90	18:30

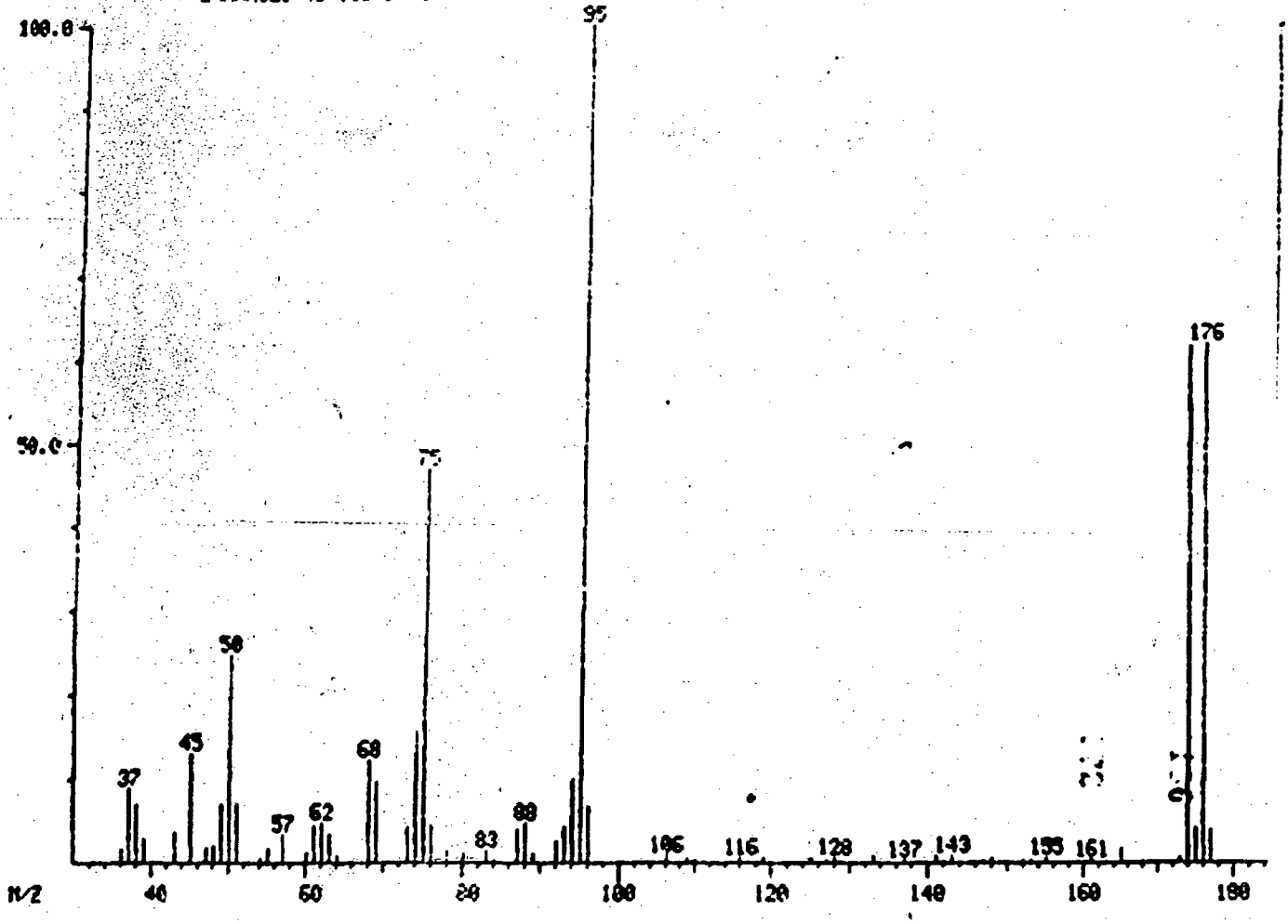
946010419

ABK000802

MASS SPECTRUM
07/13/90 11:00:00 + 5:26
SAMPLE: SONG BFB MASS SPECTROMETER TUNE CHECK
CONDS.:
TEMP: 220 DEG. C
ENHANCED (S 158 ZN OT)

DATA: 762T #257
CALI: CALI052390 #3

BASE M/Z: 95
RIC: 28704.



946010420

ABK000803

Mass List
07/13/90 11:00:00 + 6.26
Sample: 50NG BFB
Conds.:
Enhanced (S 15B 2N OT)

Data 762T # 257
Cal). CAL1052390 # 3
MASS SPECTROMETER TUNE CHECK

Base m/z: 95
RIC: 28704.

36	0.00	0.
177		
Mass	% RA	Inten.
36?	1.59	96.
37?	8.72	528.
38?	6.95	421
39?	2.72	165
43?	3.68	223
45?	13.01	788.
47?	1.77	107.
48?	2.06	125
49?	6.90	418.
50?	24.57	1488
51?	7.00	424.
54?	0.54	33.
55?	1.55	94
57?	3.32	201.
60?	1.06	64.
61?	4.38	265
62?	4.59	278.
63?	3.30	200.
64?	0.74	45
68?	12.22	740
69	9.73	589.
73	4.11	249.
74	15.54	941
75	47.09	2852
76	4.46	270
78	1.37	83
80	1.12	68.
83	1.32	80
84	0.41	25
87	3.78	229.
88	4.71	285
89	1.11	67
92	2.54	154.
93	4.08	247.
94	10.04	608
95	100.00	6056
96	6.75	409
106	0.89	54
109	0.56	34.
110	0.40	24.
116	0.64	39.
119	0.46	28.
125	0.43	26.
127	0.26	16
128	0.59	36.
133	0.71	43
137	0.31	19
141	0.73	44

Minima Maxima	Min #	Inten: 0	0.
Mass		% RA	Inten.
147		0.31	19.
148		0.51	31.
152		0.35	21.
153		0.31	19.
155		0.43	26.
161		0.38	23.
165		1.60	97.
173		0.56	34.
174		61.69	3736.
175		4.01	243.
176		61.96	3752.
177		3.95	238

HAZARDOUS WASTE ENGINEERING CONSULTANTS INC.
ENVIRONMENTAL LABORATORY

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

CLIENT: HWEC
WHIPPANY PAPER BOARD

FILE ID: 773T Date: 07/16/90 Time: 9:41

Data Release Authorized By: J Finnegan-Kelly

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of Base Peak	27.4
75	30.0 - 60.0% of Base Peak	51.8
95	Base Peak, 100% Relative Abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 1.0% of Base Peak	0.7
174	Greater than 50.0% of Base Peak	63.9
175	5.0 - 9.0% of mass 174	7.5 (4.8)*
176	Greater than 95.0%, But less that 101.0% of mass 174	98.9 (63.1)*
177	5.0 - 9.0% of mass 176	6.9 (4.3)**

* value in parenthesis is % mass 174
** value in parenthesis is % mass 176

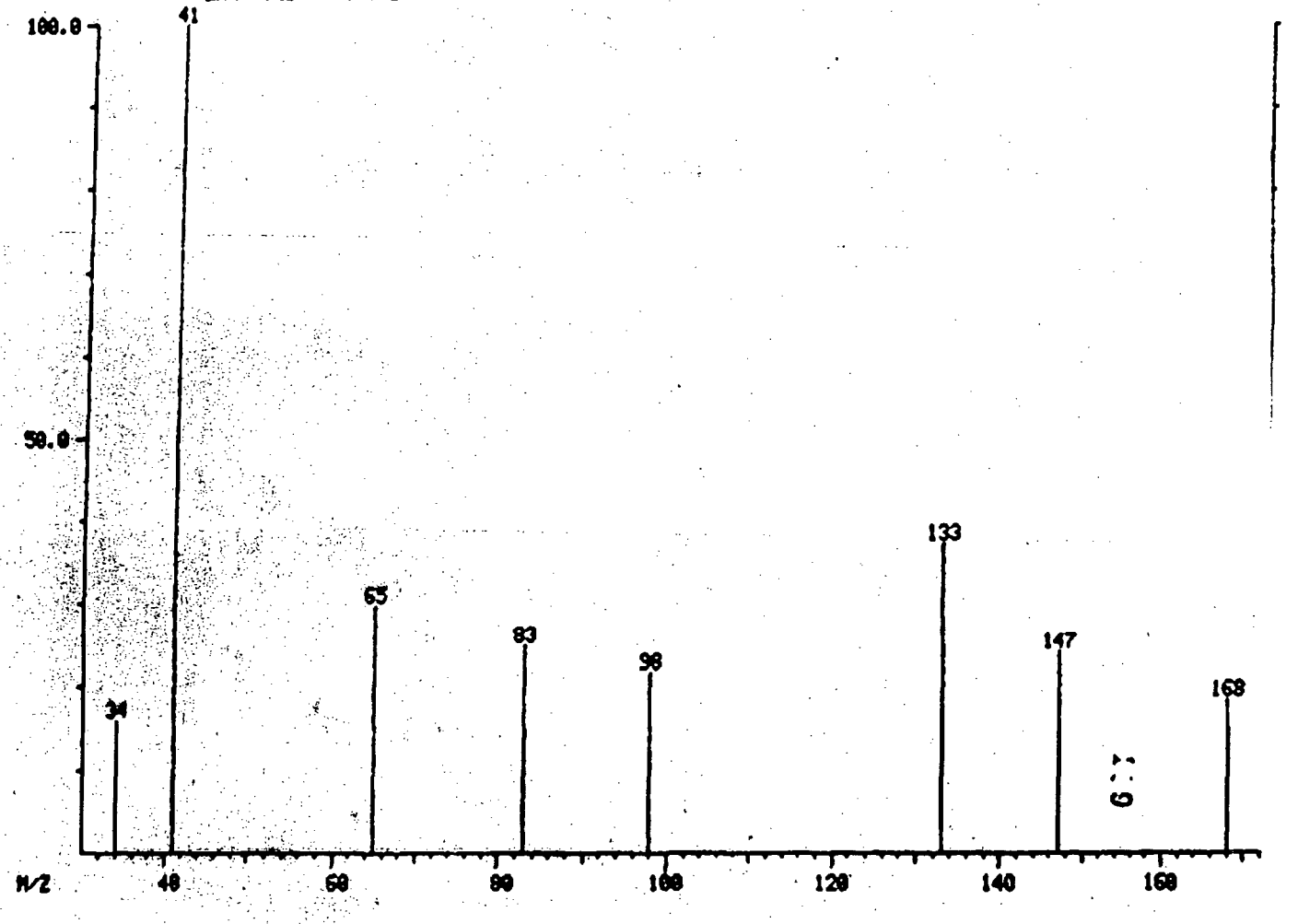
This performance tune applies to the following samples, blanks and standards

SAMPLE ID	FILE ID	LAB ID	DATE	TIME
	774	VSTD 50	07/16/90	11:13
	775	VBLK	07/16/90	12:18
PE1	777	3010	07/16/90	15:15
PE3A	778	3011	07/16/90	16:23
PE3	779	3017	07/16/90	17:31

MASS SPECTRUM
07/16/90 9:41:00 + 5:23
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: WFB-PE3
TEMP: 220 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 773T #255
CALI: CALI052390 #3

BASE M/Z: 41
PIC: 328.



946010423

ABK000806

Mass List Data: 773T # 255 Base m/z: 95
07/16/90 9:41:00 + 6:23 Cali: CALI052390 # 3 RIC: 2752510.
Sample: 50NG BFB MASS SPECTROMETER TUNE CHECK
Conds.: WPB-PE3
#240 to #270 summed

34	0.00	0	Minima	Min Inten:	813.
207			Maxima	# 0	
Mass	% RA	Inten.	Mass	% RA	Inten.
36?	1.95	9520.	87	6.18	30240.
37?	9.12	44608.	88	8.09	39552.
38?	7.97	38976.	89	2.16	10560.
39?	4.14	20256.	90	0.30	1474.
40?	1.65	8056.	91	0.76	3728.
41?	2.39	11664.	92	2.62	12816.
42?	2.00	9792.	93	4.06	19840.
43?	7.38	36096.	94	11.20	54784.
44?	11.23	54912.	95	100.00	488960.
45?	15.99	78208.	96	6.91	33792.
46?	0.68	3320.	97	0.70	3424.
47?	2.47	12064.	101	0.58	2832.
48?	0.92	4488.	102	0.41	2018.
49?	6.18	30240.	103	0.53	2580.
50?	27.43	134144.	104	0.53	2604.
51?	8.31	40640.	105	0.41	2006.
52?	0.52	2520.	106	0.44	2136.
53?	0.34	1654.	107	0.19	913.
54?	0.19	922.	111	0.34	1676.
55?	1.93	9424.	112	0.17	817.
56?	2.52	12320.	115	0.51	2480.
57?	5.85	28608.	116	0.41	2020.
58?	5.05	24672.	117	0.82	4000.
59?	1.87	9168.	118	0.35	1708.
60?	1.48	7240.	119	0.81	3964.
61?	5.41	26464.	128	0.45	2204.
62?	5.14	25120.	129	0.22	1088.
63?	3.89	19008.	130	0.36	1774.
64?	0.47	2288.	131	0.52	2524.
65?	0.40	1934.	133	0.35	1708.
67?	0.84	4084.	135	0.21	1034.
68?	11.86	57984.	141	0.77	3772.
69	11.48	56128.	143	0.73	3548.
70	1.41	6912.	147	0.19	910.
71	1.35	6616.	148	0.24	1150.
72	1.41	6888.	149	0.67	3260.
73	6.24	30496.	153	0.21	1020.
74	17.20	84096.	155	0.45	2216.
75	51.83	253440.	159	0.22	1064.
76	4.86	23744.	165	0.77	3780.
77	1.13	5512.	166	0.75	3668.
78	0.62	3040.	167	0.22	1056.
79	3.05	14896.	173	0.42	2046.
80	1.60	7824.	174	63.87	312320.
81	3.21	15696.	175	4.80	23456.
82	1.65	8072.	176	63.14	308736.
83	0.77	3780.	177	4.34	21216.
84	0.28	1370.	203	0.27	1306.

HAZARDOUS WASTE ENGINEERING CONSULTANTS INC.
ENVIRONMENTAL LABORATORY

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

CLIENT: HWEC
WHIPPANY PAPER BOARD

FILE ID: 783T Date: 07/17/90 Time: 9:30

Data Release Authorized By: J Finnegan Kelly

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of Base Peak	24.5
75	30.0 - 60.0% of Base Peak	47.9
95	Base Peak, 100% Relative Abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 1.0% of Base Peak	0
174	Greater than 50.0% of Base Peak	60.9
175	5.0 - 9.0% of mass 174	6.8 (4.1)*
176	Greater than 95.0%, But less that 101.0% of mass 174	95.4 (58.1)*
177	5.0 - 9.0% of mass 176	6.7 (3.9)**

* value in parenthesis is % mass 174
** value in parenthesis is % mass 176

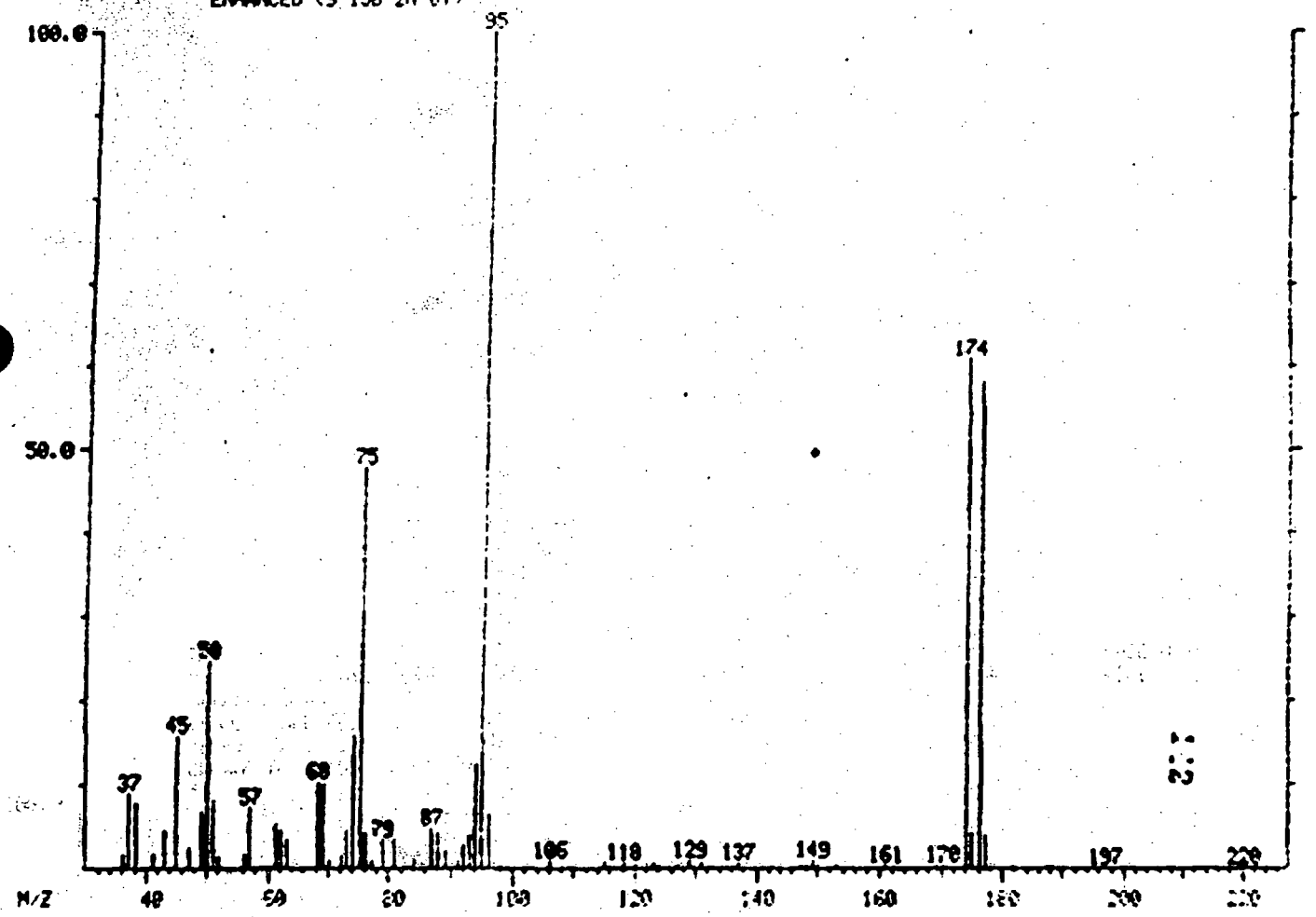
This performance tune applies to the following samples, blanks and standards

SAMPLE ID	FILE ID	LAB ID	DATE	TIME
	784	VSTD 50	07/17/90	11:30
	785	VBLK	07/17/90	12:31
TB10	787	3004	07/17/90	16:25
FB11	788	3005	07/17/90	17:15

MASS SPECTRUM
07/17/90 9:30:00 + 5:32
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: WPB-PE2
TEMP: 220 DEG. C
ENHANCED (S 158 2H 0T)

DATA: 783T #261
CALI: CALI052390 #3

BASE M/Z: 95
PIC: 28544.



946010426

ABK000809

Mass List
07/17/90 9:30:00 + 6.32
Sample: 50NG BFB
Conds: WPB-PE2
Enhanced (S 15B 2N OT)

Data: 783T # 261
Cali: CAL1052390 # 3
MASS SPECTROMETER TUNE CHECK

Base m/z: 95
RIC: 28544

36 220 Mass	0.00 % RA	0 Inten	Minima Maxima Mass	Min Inten # 0 % RA	0. Inten.
36?	1.69	101	149	0.70	42.
37?	8.96	534	150	0.25	15.
38?	7.67	457	153	0.32	19.
41?	1.66	99.	161	0.25	15.
43?	4.33	258	169	0.18	11.
45?	15.86	945	170	0.20	12.
47?	2.38	142	174	60.87	3628.
49?	6.49	387	175	4.14	247.
50?	24.46	1458	176	58.05	3460.
51?	8.07	481	177	3.88	231.
52?	1.29	77	179	0.07	4.
56?	1.64	96.	197	0.13	8.
57?	7.27	433	220	0.08	5.
61?	5.25	313			
62?	4.53	270.			
63?	3.20	191			
68?	10.23	610.			
69	9.98	595.			
70	0.89	53.			
72	1.26	75.			
73	4.38	261			
74	15.62	931.			
75	47.85	2852.			
76	4.23	252.			
77	0.94	56.			
79	3.27	195.			
81	3.24	193.			
84	0.79	47.			
87	4.78	285.			
88	4.23	252.			
89	1.83	109.			
91	0.70	42.			
92	2.65	158.			
93	3.79	226.			
94	12.33	735.			
95	100.00	5960.			
96	6.46	385.			
98	0.32	19.			
106	0.87	52.			
115	0.44	26.			
118	0.60	36.			
120	0.34	20.			
123	0.45	27.			
124	0.17	10.			
127	0.20	12.			
129	0.81	48.			
131	0.65	39.			
137	0.42	25.			

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

PETROLEUM HYDROCARBONS

CLIENT WHIPPANY PAPERBOARD DATE JULY 24, 1990

SAMPLE #	DATE SAMPLED	DATE ANALYZED	LAB #	PHC(WET) mg/kg	PHC(DRY) mg/kg	%H_2O
WPB-PE1	7/13/90	7/17/90	3008A	104	117	10.8
PE1	"	"	3008B	163	182	10.3
PE2	"	"	3012	11	13	13.7
PE3	"	"	3015	16	17	8.1
PE3A	"	"	3019	14	15	8.6
METHOD BLANK		"	MB0025		11	
SPIKE		"	3012S	% RECOVERY = 91		

WATER

				[PHC] mg/l
WPB-PB12	"	"	3006	0.19
METHOD BLANK		"	MB0026	0.19

PHILIP D. READIO, PH.D.
HWEC LAB DIRECTOR

RESULTS

FOR

SOIL SAMPLES

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

1
SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET(SOIL)

118

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/21/90

Percent Moisture		N/A	15	14	12	
Date Extracted/prepared		8/1/90	8/1/90	8/1/90	8/1/90	
Dilution factor		1	1	1	1	
Lab Identification		SBLK	3009 RX	3013 RX	3018 RX	
Client Identification			PE 1	PE 2	PE 3A	
File Identification		A225	A235	A236	A233	
CAS NO.	COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	MDL
62759	N-Nitrosodimethylamine	U	U	U	U	330
62533	Aniline	U	U	U	U	330
108952	Phenol	U	U	U	U	330
111444	bis(2-Chloroethyl)Ether	U	U	U	U	330
95578	2-Chlorophenol	U	U	U	U	330
541731	1,3-Dichlorobenzene	U	U	U	U	330
106467	1,4-Dichlorobenzene	U	U	U	U	330
100516	Benzyl Alcohol	U	U	U	U	330
95501	1,2-Dichlorobenzene	U	U	U	U	330
95487	2-Methylphenol	U	U	U	U	330
39638329	bis(2-chloroisopropyl)Ether	U	U	U	U	330
106445	4-Methylphenol	U	U	U	U	330
621647	N-Nitroso Di-n-Propylamine	U	U	U	U	330
67721	Hexachloroethane	U	U	U	U	330
98953	Nitrobenzene	U	U	U	U	330
78591	Isophorone	U	U	U	U	330
88755	2-Nitrophenol	U	U	U	U	1600
105679	2,4-Dimethylphenol	U	U	U	U	330
65850	Benzoic Acid	U	U	U	U	330
111911	bis(2-Chloroethoxy)Methane	U	U	U	U	330
120832	2,4-Dichlorophenol	U	U	U	U	330
120821	1,2,4-Trichlorobenzene	U	U	U	U	330
91203	Naphthalene	U	1	U	U	330
106478	4-Chloroaniline	U	U	U	U	330
87683	Hexachlorobutadiene	U	U	U	U	330
59507	4-Chloro-3-Methylphenol	U	U	U	U	330
91576	2-Methylnaphthalene	U	U	U	U	330
77474	Hexachlorocyclopentadiene	U	U	U	U	1600
88062	2,4,6-Trichlorophenol	U	U	U	U	330
95954	2,4,5-Trichlorophenol	U	U	U	U	1600
91587	2-Chloronaphthalene	U	U	U	U	330
88744	2-Nitroaniline	U	U	U	U	330
131113	Dimethyl Phthalate	U	U	0.6	U	1600
208968	Acenaphthylene	U	U	U	U	330
606202	2,6-Dinitrotoluene	U	U	U	U	330

ug/kg results are based on dry weights
* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

946010430

ABK000813

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

2

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET(SOIL)

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/21/90

Percent Moisture		N/A	15	14	8	
Date Extracted/prepared		8/1/90	8/1/90	8/1/90	8/1/90	
Dilution factor		1	1	1	1	
Lab Identification		SBLK	3009 RX	3013 RX	3018 RX	
Client Identification			PE 1	PE 2	PE 3A	
File Identification		A225	A235	A236	A233	
CAS NO.	COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	MDL
99092	3-Nitroaniline	U	U	U	U	330
83329	Acenaphthene	U	U	U	U	1600
51285	2,4-Dinitrophenol	U	U	U	U	1600
100027	4-Nitrophenol	U	U	U	U	330
132649	Dibenzofuran	U	U	U	U	330
121142	2,4-Dinitrotoluene	U	U	U	U	330
606202	Diethylphthalate	U	1	4	3	330
84662	4-Chlorophenyl-phenylether	U	U	U	U	330
7005723	Fluorene	U	U	U	U	330
86737	4-Nitroaniline	U	U	U	U	1600
100016	1,2-Diphenylhydrazine	U	U	U	U	1600
* 534521	4,6-Dinitro-2-Methylphenol	U	U	U	U	330
86306	N-Nitrosodiphenylamine(1)	U	U	1	U	330
101553	4-Bromophenyl-phenylether	U	U	1	U	330
118741	Hexachlorobenzene	U	U	1	U	1600
87865	Pentachlorophenol	U	U	U	U	330
85018	*Phenanthrene*	U	U	1	U	1600
120127	Anthracene	U	U	1	U	330
84742	Di-n-Butylphthalate	U	U	1	U	330
206440	Fluoranthene	U	2	1	U	330
92875	Benzidine	U	U	U	U	330
129000	Pyrene	U	2	1	0.5	330
85687	Butylbenzylphthalate	U	U	1	U	660
91941	3,3-Dichlorobenzidine	U	U	U	U	330
56553	Benzo(a)Anthracene	U	U	1	U	330
117817	Chrysene	U	U	1	U	330
218019	Bis(2-ethylhexyl)phthalate	U	2	2	18	330
117840	Di-n-Octyl Phthalate	U	U	1	1	330
205992	Benzo(b)Fluoranthene	U	1	1	U	1600
207089	Benzo(k)Fluoranthene	U	1	1	U	330
50328	Benzo(a)Pyrene	U	U	1	U	1600
193395	Indeno(1,2,3-cd)Pyrene	U	U	U	U	330
53703	Dibenzo(a,h)Anthracene	U	U	U	U	330
191242	Benzo(g,h,i)Perylene	U	U	U	U	330

ug/kg results are based on dry weights.
(1)-Cannot be separated from diphenylamine
* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

1
SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET(SOIL)

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/20/90

Percent Moisture	N/A	8	
Date Extracted/prepared	08/09/90	08/09/90	
Dilution factor	1	1	
Lab Identification	SBLK	3016 RX	
Client Identification		PE 3	
File Identification	A234	A231	
CAS NO. / COMPOUND	ug/Kg	ug/Kg	MDL
62759 N-Nitrosodimethylamine	U	U	330
62533 Aniline	U	U	330
108952 Phenol	U	U	330
111444 bis(2-Chloroethyl)Ether	U	U	330
95578 2-Chlorophenol	U	U	330
541731 1,3-Dichlorobenzene	U	U	330
106467 1,4-Dichlorobenzene	U	U	330
100516 Benzyl Alcohol	U	U	330
95501 1,2-Dichlorobenzene	U	U	330
95487 2-Methylphenol	U	U	330
39638329 bis(2-chloroisopropyl)Ether	U	U	330
106445 4-Methylphenol	U	U	330
621647 N-Nitroso Di-n-Propylamine	U	U	330
67721 Hexachloroethane	U	U	330
98953 Nitrobenzene	U	U	330
78591 Isophorone	U	U	330
88755 2-Nitrophenol	U	U	1600
105679 2,4-Dimethylphenol	U	U	330
65850 Benzoic Acid	U	U	330
111911 bis(2-Chloroethoxy)Methane	U	U	330
120832 2,4-Dichlorophenol	U	U	330
120821 1,2,4-Trichlorobenzene	U	U	330
91203 Naphthalene	U	U	330
106478 4-Chloroaniline	U	U	330
87683 Hexachlorobutadiene	U	U	330
59507 4-Chloro-3-Methylphenol	U	U	330
91576 2-Methylnaphthalene	U	U	330
77474 Hexachlorocyclopentadiene	U	U	1600
88062 2,4,6-Trichlorophenol	U	U	330
95954 2,4,5-Trichlorophenol	U	U	1600
91587 2-Chloronaphthalene	U	U	330
88744 2-Nitroaniline	U	U	330
131113 Dimethyl Phthalate	U	U	1600
208968 Acenaphthylene	U	U	330
606202 2,6-Dinitrotoluene	U	U	330

ug/kg results are based on dry weights.
* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

2

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET(SOIL)

CLIENT: HWEC
WHIPPANY PAPER BOARD

DATE: 8/20/90

Percent Moisture		N/A	8	
Date Extracted/prepared		08/09/90	08/09/90	
Dilution factor		1	1	
Lab Identification		SBLK RX	3016 RX	
Client Identification			PE 3	
File Identification		A234	A231	
CAS NO.	COMPOUND	ug/Kg	ug/Kg	MDL
99092	3-Nitroaniline	U	U	330
83329	Acenaphthene	U	U	1600
51285	2,4-Dinitrophenol	U	U	1600
100027	4-Nitrophenol	U	U	330
132649	Dibenzofuran	U	U	330
121142	2,4-Dinitrotoluene	U	U	330
606202	Diethylphthalate	U	3	330
84662	4-Chlorophenyl-phenylether	U	U	330
7005723	Fluorene	U	U	330
86737	4-Nitroaniline	U	U	1600
100016	1,2-Diphenylhydrazine	U	U	1600
534521	4,6-Dinitro-2-Methylphenol	U	U	330
86306	N-Nitrosodiphenylamine(1)	U	U	330
101553	4-Bromophenyl-phenylether	U	U	330
118741	Hexachlorobenzene	U	U	1600
87865	Pentachlorophenol	U	2	330
85018	Phenanthrene	U	U	1600
120127	Anthracene	U	U	330
84742	Di-n-Butylphthalate	1	1	330
206440	Fluoranthene	U	U	330
92875	Benzidine	U	U	330
129000	Pyrene	U	1	330
85687	Butylbenzylphthalate	U	U	660
91941	3,3-Dichlorobenzidine	U	U	330
56553	Benzo(a)Anthracene	U	U	330
117817	Chrysene	U	U	330
218019	Bis(2-ethylhexyl)phthalate	2	3	330
117840	Di-n-Octyl Phthalate	U	1	330
205992	Benzo(b)Fluoranthene	U	U	1600
207089	Benzo(k)Fluoranthene	U	U	330
50328	Benzo(a)Pyrene	U	U	1600
193395	Indeno(1,2,3-cd)Pyrene	U	U	330
53703	Dibenzo(a,h)Anthracene	U	U	330
191242	Benzo(g,h,i)Perylene	U	U	330

ug/kg results are based on dry weights.
(1)-Cannot be separated from diphenylamine
* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

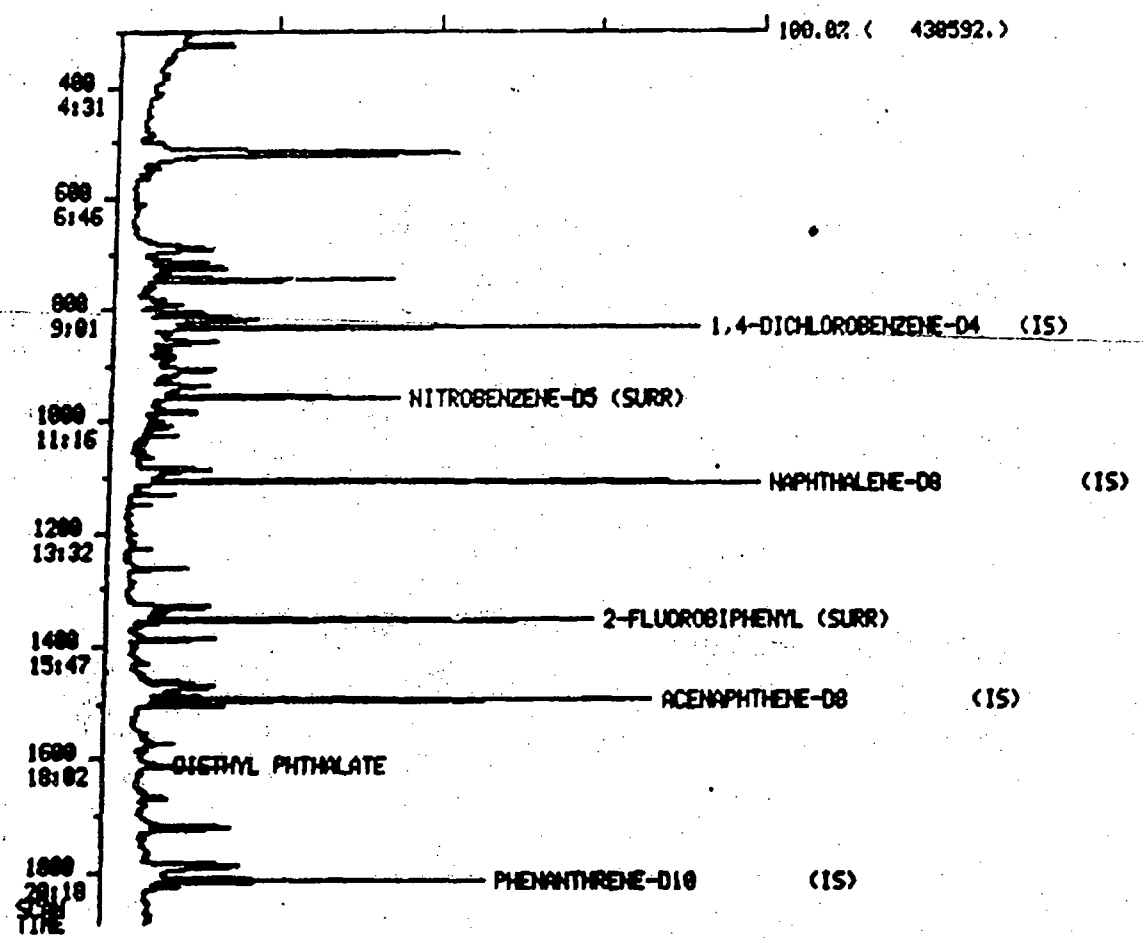
RAW DATA

FOR

SOIL SAMPLES

DATA FROM FILE: A235 SCANS 300 TO 1890 ACQUIRED: 08/16/90 15:17:00
CALI: A235 #3

SAMPLE: SS-3009 RX
CONDS: WPB-PE1

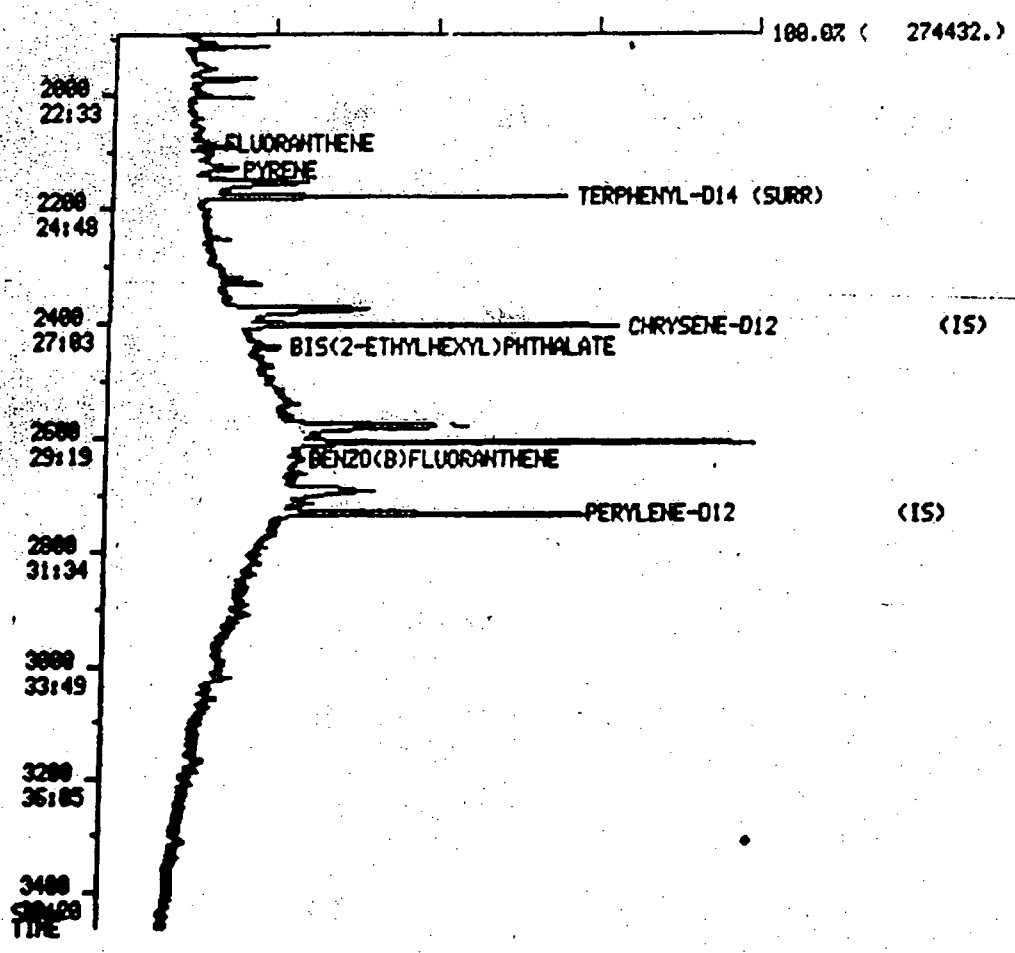


946010435

ABK000818

DATA FROM FILE: A235 SCANS 1891 TO 3459 ACQUIRED: 08/16/90 15:17:00
CALI: A235 #3

SAMPLE: SS-3089 RX
CONDS.: WPB-PE1

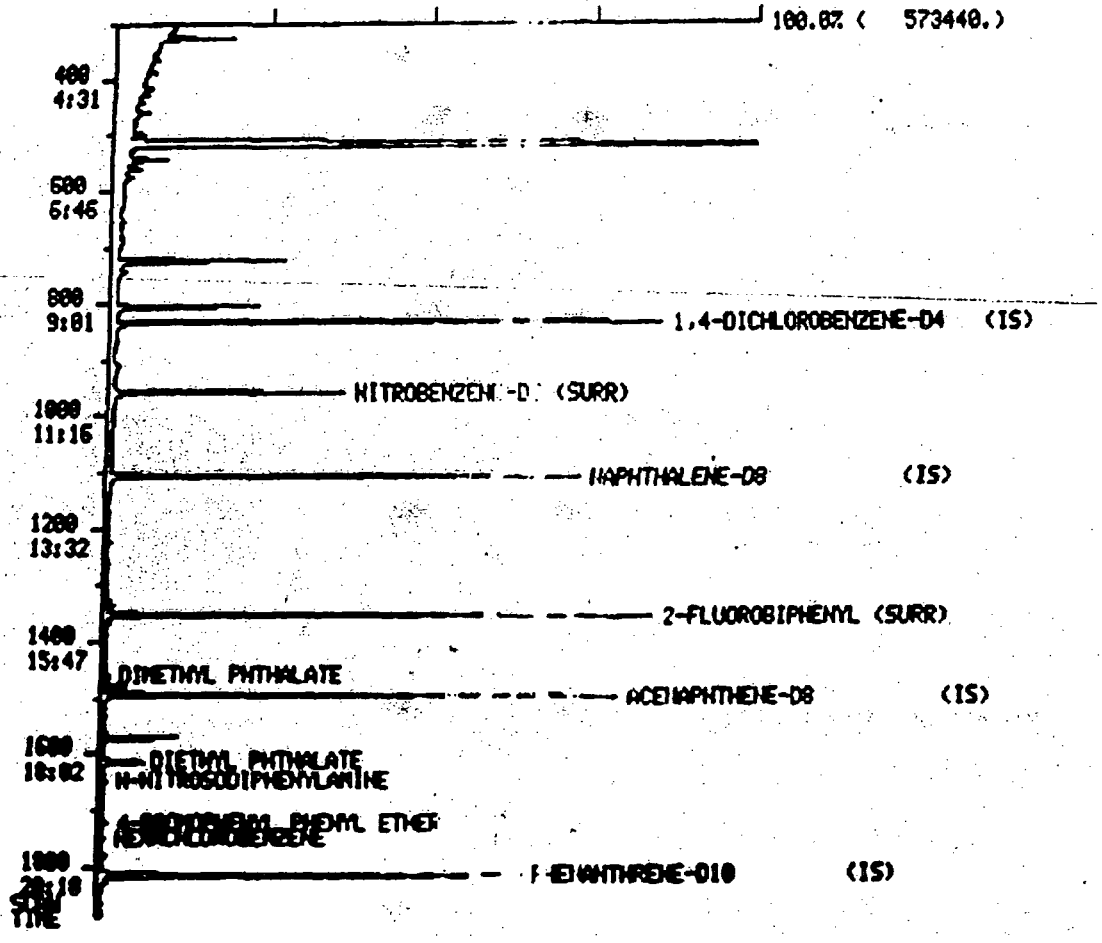


946010436

ABK000819

DATA FROM FILE: A236 SCANS 300 TO 1890 ACQUIRED: 08/16/90 16:40:00
CALI: A236 #3

SAMPLE: SS-3813 RX
CONDS.: WPB-PE2

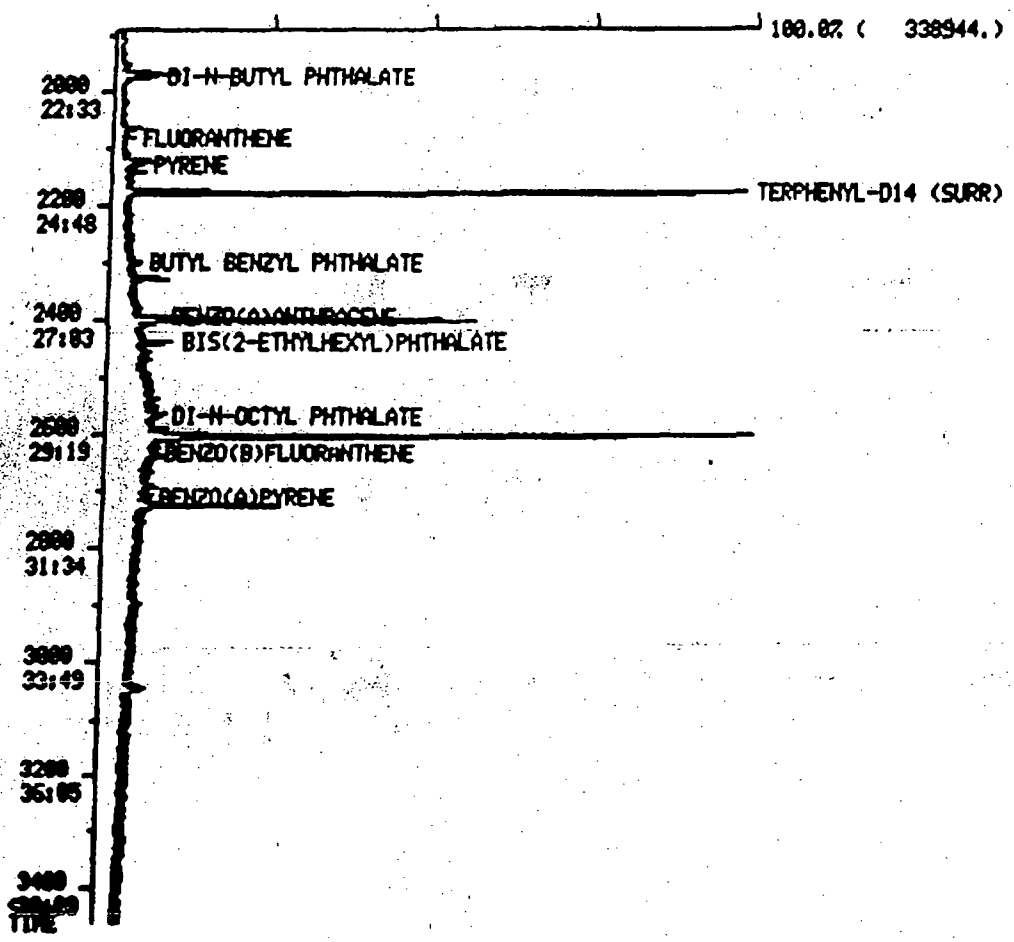


946010437

ABK000820

DATA FROM FILE: A236 SCANS 1891 TO 3459 ACQUIRED: 08/16/90 16:40:00
CALI: A236 #3

SAMPLE: SS-3013 RX
CONDS.: WPB-PE2

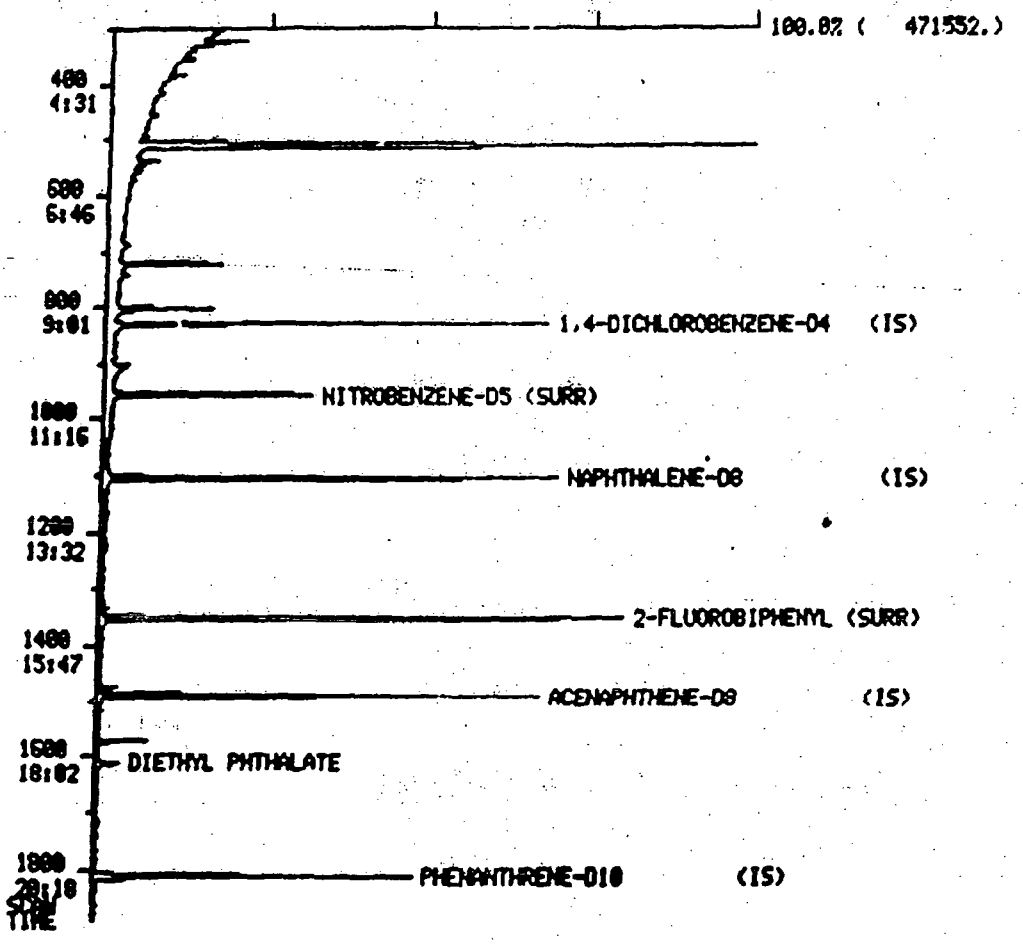


ABK000821

946010438

DATA FROM FILE: A233 SCANS 300 TO 1890 ACQUIRED: 08/16/90 13:33:00
CALI: A233 #3

SAMPLE: SS-3010 RX
CONDS.: WPB-PE3A

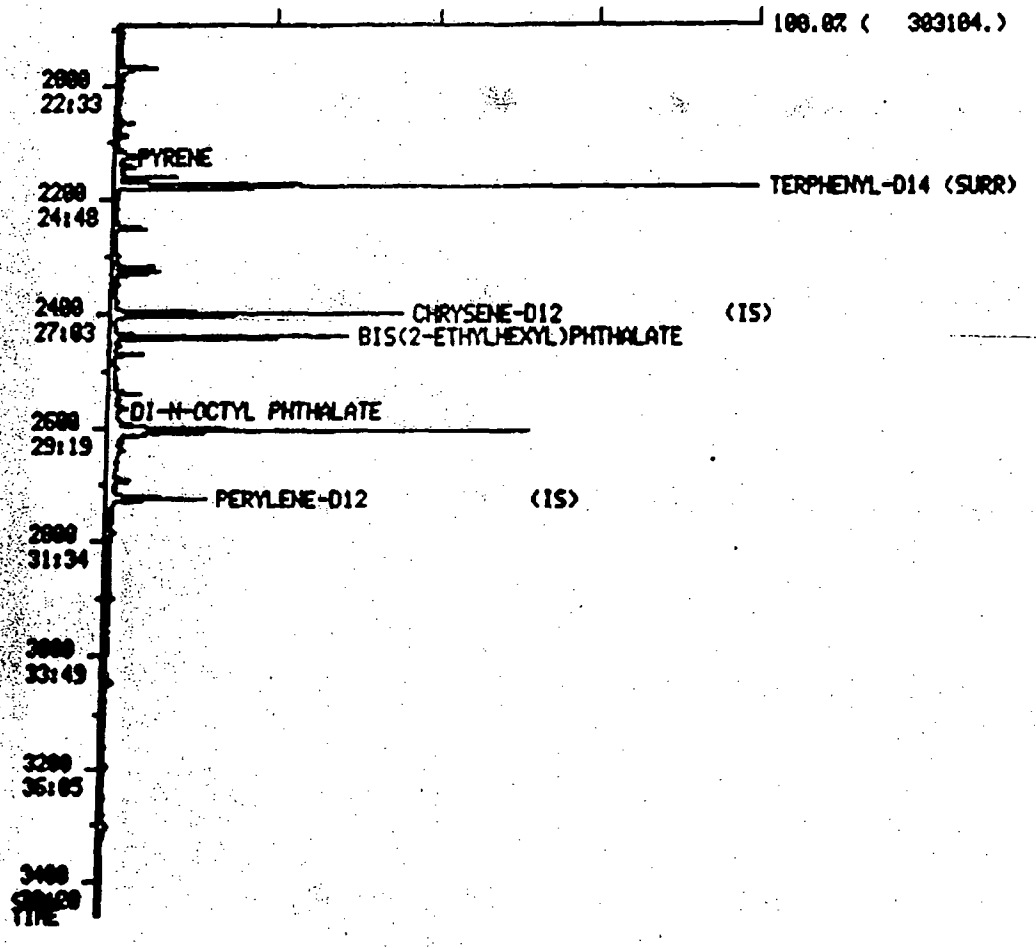


946010439

ABK000822

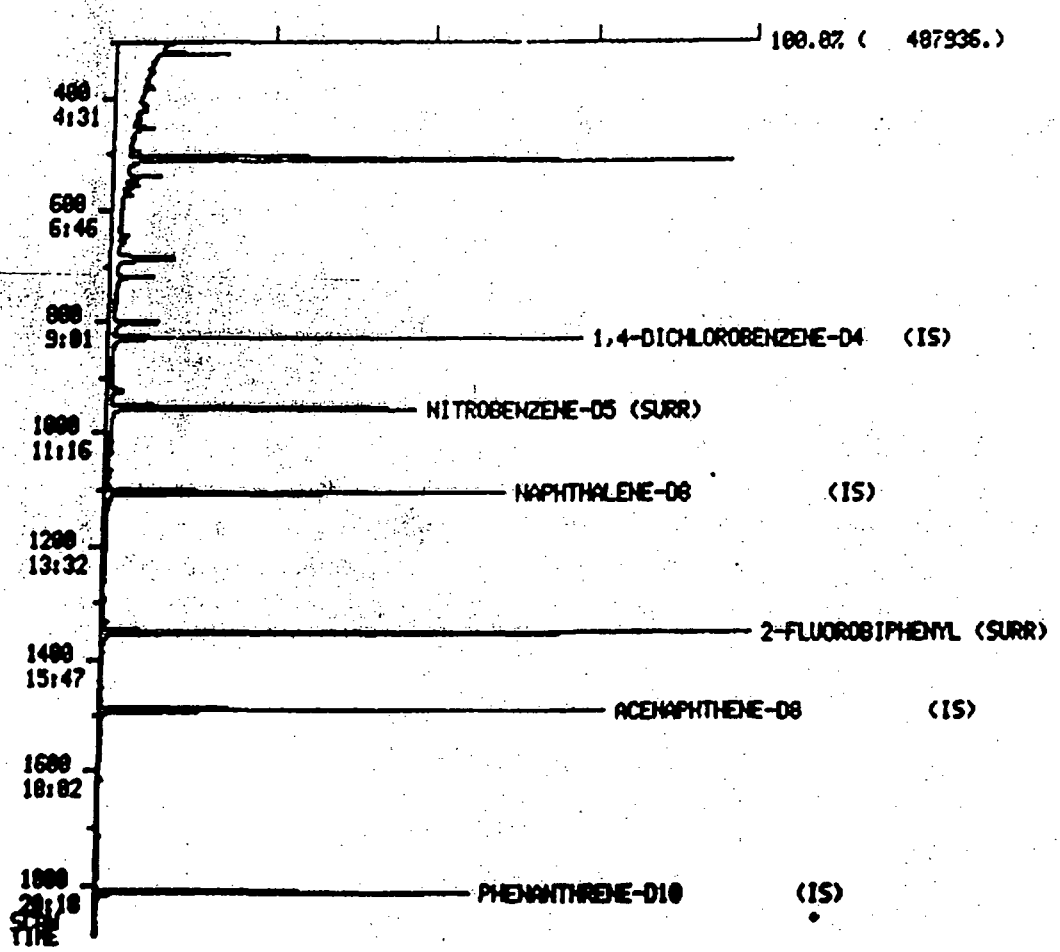
DATA FROM FILE: A233 SCANS 1891 TO 3459 ACQUIRED: 08/16/90 13:33:00
CALI: A233 #3

SAMPLE: SS-3018 RX
CONDS.: WPB-PE3A



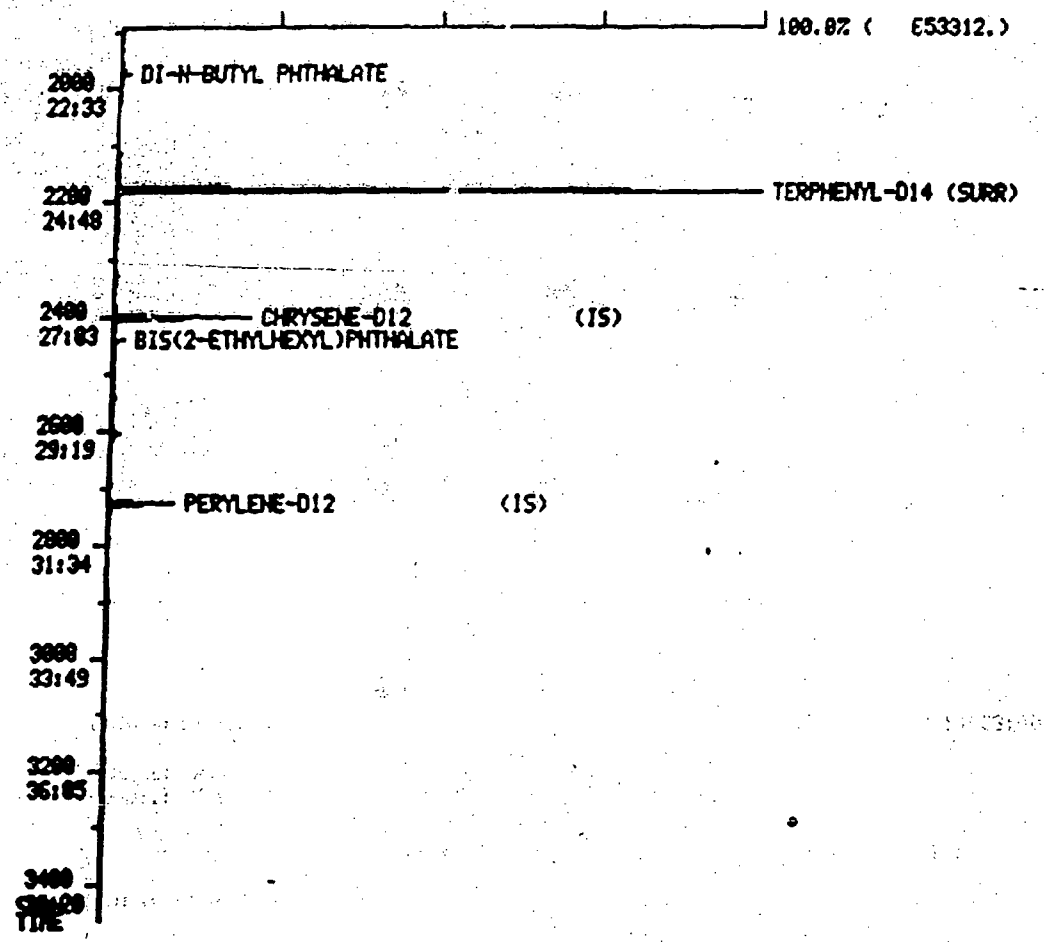
DATA FROM FILE: A234 SCANS 300 TO 1890 ACQUIRED: 08/16/90 14:23:00
CALI: A234 #3

SAMPLE: SBLK RX
CONDS.: MB0041



DATA FROM FILE: A234 SCANS 1891 TO 3459 ACQUIRED: 08/16/90 14:23:00
CALI: A234 #3

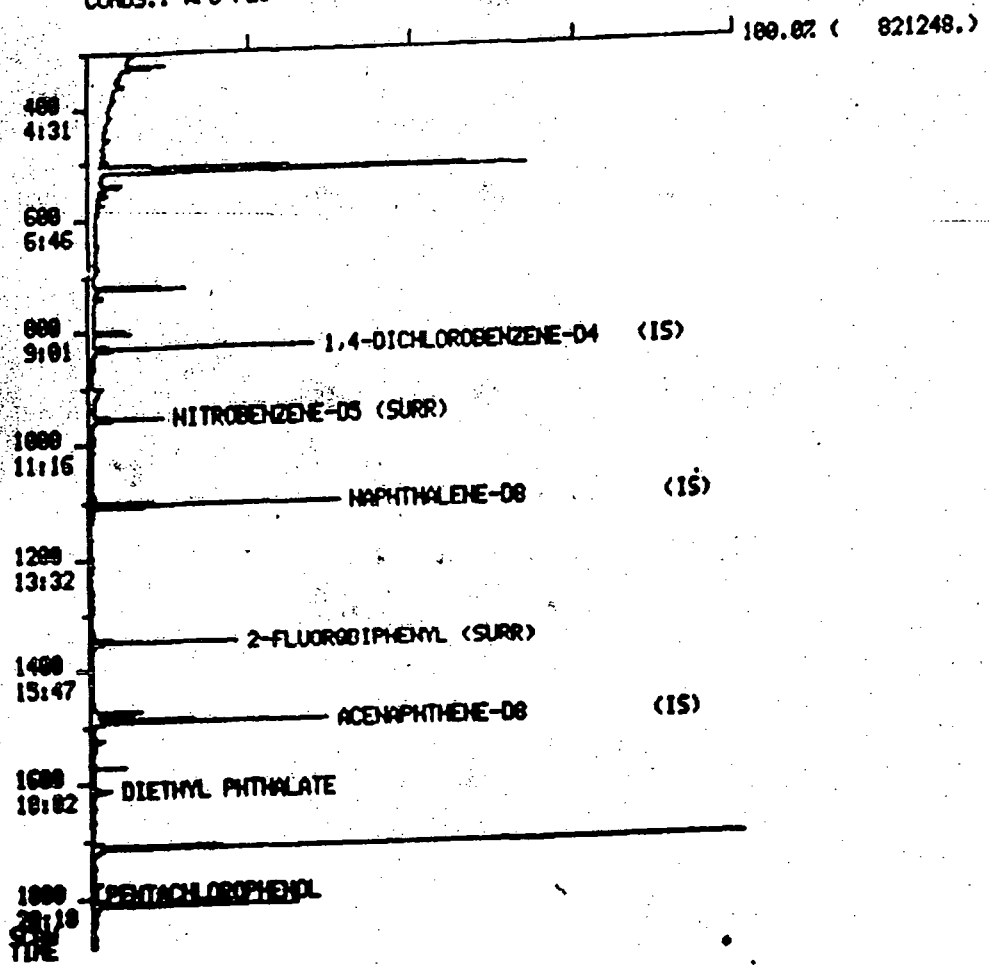
SAMPLE: SBLK RX
CONDS.: M90041



DATA FROM FILE: A231

SCANS 300 TO 1890 ACQUIRED: 08/16/90 11:56:00
CAL1: A231 03

SAMPLE: SS-3816 RX
CONDS.: WP8-PE3



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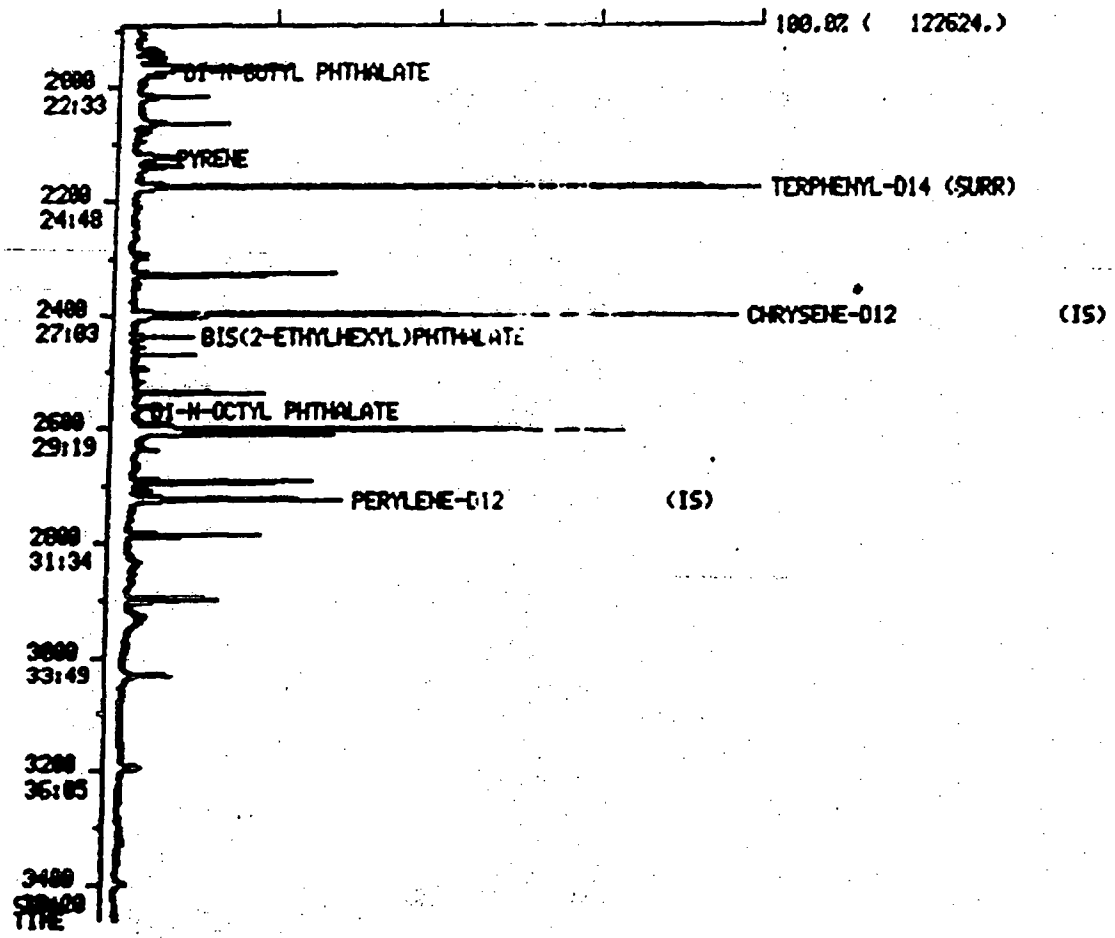
946010443

ABK000826

DATA FROM FILE: A231 SCANS 1391 TO 3459 ACQUIRED: 08/16/90 11:56:00
CALI: A231 #3

SAMPLE: SS-3816 RX
CONDS.: WPB-PE3



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946010444 ABK000827

RESULTS

FOR

WATER SAMPLES

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)

CLIENT: HWEC
WHIPPANY PAPER BAORD DATE: 8/20/90

Date Extracted/prepared	7/19/90	
Dilution factor	1	
Lab Identification	3007	
Client Identification	FB13	
File Identification	A226	
CAS NO.	COMPOUND	ug/L	MDL
62759	N-Nitrosodimethylamine	U	10
62533	Aniline	U	10
108952	Phenol	U	10
111444	bis(2-Chloroethyl)Ether	U	10
95578	2-Chlorophenol	U	10
541731	1,3-Dichlorobenzene	U	10
106467	1,4-Dichlorobenzene	U	10
100516	Benzyl Alcohol	U	10
95501	1,2-Dichlorobenzene	U	10
95487	2-Methylphenol	U	10
39638329	bis(2-chloroisopropyl)Ether	U	10
106445	4-Methylphenol	U	10
621647	N-Nitroso Di-n-Prop,lamine	U	10
67721	Hexachloroethane	U	10
98953	Nitrobenzene	U	10
78591	Isophorone	U	10
88755	2-Nitrophenol	U	50
105679	2,4-Dimethylphenol	U	10
65850	Benzoic Acid	U	10
111911	bis(2-Chloroethoxy)Methane	U	10
120832	2,4-Dichlorophenol	U	10
120821	1,2,4-Trichlorobenzene	U	10
91203	Naphthalene	U	10
106478	4-Chloroaniline	U	10
87683	Hexachlorobutadiene	U	10
59507	4-Chloro-3-Methylphenol	U	10
91576	2-Methylnaphthalene	U	10
77474	Hexachlorocyclopentadiene	U	50
88062	2,4,6-Trichlorophenol	U	10
95954	2,4,5-Trichlorophenol	U	50
91587	2-Chloronaphthalene	U	10
88744	2-Nitroaniline	U	10
131113	Dimethyl Phthalate	1	50
208968	Acenaphthylene	U	50
606202	2,6-Dinitrotoluene	U	50

* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
ENVIRONMENTAL LABORATORY

2

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET(WATER)

CLIENT: HWEC
WHIPPANY PAPER BOARD DATE: 8/20/90

Date Extracted/prepared		7/19/90	
Dilution factor		1	
Lab Identification		3007	
Client Identification		FB13	
File Identification		A226	
CAS NO.	COMPOUND	ug/L	MDL
99092	3-Nitroaniline	U	10
83329	Acenaphthene	U	50
51285	2,4-Dinitrophenol	U	50
100027	4-Nitrophenol	U	10
132649	Dibenzofuran	U	10
121142	2,4-Dinitrotoluene	U	10
606202	Diethylphthal*te	2	10
84662	4-Chlorophenyl-phenylether	U	10
7005723	Fluorene	U	10
86737	4-Nitroaniline	U	50
100016	1,2-Diphenylhydrazine	1	50
534521	4,6-Dinitro-2-Methylphenol	U	10
86306	N-Nitrosodiphenylamine(1)	1	10
101553	4-Bromophenyl-phenylether	U	10
118741	Hexachlorobenzene	1	50
87865	Pentachlorophenol	U	10
85018	Phenanthrene	U	50
120127	Anthracene	U	10
84742	Di-n-Butylphthalate	2	10
206440	Fluoranthene	U	10
92875	Benzidine	U	10
129000	Pyrene	1	20
85687	Butylbenzylphthalate	1	10
91941	3,3-Dichlorobenzidine	U	10
56553	Benzo(a)Anthracene	U	10
117817	Chrysene	U	10
218019	Bis(2-ethylhexyl)phthalate	4	10
117840	Di-n-Octyl Phthalate	1	50
205992	Benzo(b)Fluoranthene	U	10
207089	Benzo(k)Fluoranthene	U	50
50328	Benzo(a)Pyrene	U	10
193395	Indeno(1,2,3-cd)Pyrene	U	10
53703	Dibenzo(a,h)Anthracene	U	10
191242	Benzo(g,h,i)Perylene	U	10

(1)-Cannot be separated from diphenylamine
* Minimum Detection Limit (MDL) = Lower Limits of Detection x DF

SURROGATE RECOVERY

AND

INTERNAL STANDARD CHECK

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, SEMIVOLATILE SOILS

DATAFILE: A235 ANALYSIS TIME: 08/16/90 15:17
STANDARD: A230 ANALYSIS TIME: 08/16/90 10:08
TUNEFILE: A229T ANALYSIS TIME: 08/16/90 9:39

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD	DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
1,4-DICHLOROBENZENE-D4	141996.	134568.	106%	50% - 200%	
NAPHTHALENE-D8	353728.	550370.	64%	50% - 200%	
ACENAPHTHENE-D8	164800.	224384.	73%	50% - 200%	
PHENANTHRENE-D10	209604.	273811.	77%	50% - 200%	
CHRYSENE-D12	117720.	189102.	62%	50% - 200%	
PERYLENE-D12	181213.	125140.	145%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD	DATA SCAN	STD SCAN	DIFF (IN SEC)	CLP ACCEPT DIFF	STATUS
1,4-DICHLOROBENZENE-D4	829	829	0	+/- 30 SECS	
NAPHTHALENE-D8	1104	1105	1	+/- 30 SECS	
ACENAPHTHENE-D8	1492	1492	0	+/- 30 SECS	
PHENANTHRENE-D10	1813	1813	0	+/- 30 SECS	
CHRYSENE-D12	2401	2400	1	+/- 30 SECS	
PERYLENE-D12	2731	2727	3	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE	AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
NITROBENZENE-D5 (SURR)	35.0	100.0	35	23% - 120%	
2-FLUOROBIPHENYL (SURR)	46.2	100.0	46	30% - 115%	
TERPHENYL-D14 (SURR)	37.1	100.0	37	18% - 137%	
PHENOL-D5 (SURR)	-0.0	200.0	0	24% - 113%	failed
2-FLUOROPHENOL (SURR)	-0.0	200.0	0	25% - 121%	failed
2,4,6-TRIBROMOPHENOL (SU	-0.0	200.0	0	19% - 122%	failed

OK BN only

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, SEMIVOLATILE SOILS

DATAFILE: A236 ANALYSIS TIME: 08/16/90 16:40
STANDARD: A230 ANALYSIS TIME: 08/16/90 10:08
TUNEFILE: A229T ANALYSIS TIME: 08/16/90 9:39

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD	DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
1,4-DICHLOROBENZENE-D4	203781.	134568.	151%	50% - 200%	
NAPHTHALENE-D8	577366.	550370.	105%	50% - 200%	
ACENAPHTHENE-D8	318926.	224384.	142%	50% - 200%	
PHENANTHRENE-D10	430835.	273811.	157%	50% - 200%	
CHRYSENE-D12	195712.	189102.	103%	50% - 200%	
PERYLENE-D12	103451.	125140.	83%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD	DATA SCAN	STD SCAN	DIFF [IN SEC]	CLP ACCEPT DIFF	STATUS
1,4-DICHLOROBENZENE-D4	831	829	1	+/- 30 SECS	
NAPHTHALENE-D8	1104	1105	1	+/- 30 SECS	
ACENAPHTHENE-D8	1493	1492	1	+/- 30 SECS	
PHENANTHRENE-D10	1814	1813	1	+/- 30 SECS	
CHRYSENE-D12	2401	2400	1	+/- 30 SECS	
PERYLENE-D12	2728	2727	1	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE	AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
NITROBENZENE-D5 (SURR)	31.7	100.0	32	23% - 120%	
2-FLUOROBIPHENYL (SURR)	48.0	100.0	48	30% - 115%	
TERPHENYL-D14 (SURR)	56.2	100.0	56	18% - 137%	
PHENOL-D5 (SURR)	-0.0	200.0	0	24% - 113%	failed
2-FLUOROPHENOL (SURR)	-0.0	200.0	0	25% - 121%	failed
2,4,6-TRIBROMOPHENOL (SU	-0.0	200.0	0	19% - 122%	failed

OK
Bi only

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, SEMIVOLATILE SOILS

DATAFILE: A233 ANALYSIS TIME: 08/16/90 13:33
STANDARD: A230 ANALYSIS TIME: 08/16/90 10:08
TUNEFILE: A229T ANALYSIS TIME: 08/16/90 9:39

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD	DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
1,4-DICHLOROBENZENE-D4	117276.	134568.	87%	50% - 200%	
NAPHTHALENE-D8	377684.	550370.	69%	50% - 200%	
ACENAPHTHENE-D8	223432.	224384.	100%	50% - 200%	
PHENANTHRENE-D10	280160.	273811.	102%	50% - 200%	
CHRYSENE-D12	135663.	189102.	72%	50% - 200%	
PERYLENE-D12	69744.	125140.	56%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD	DATA SCAN	STD SCAN	DIFF [IN SEC]	CLP ACCEPT DIFF	STATUS
1,4-DICHLOROBENZENE-D4	829	829	0	+/- 30 SECS	
NAPHTHALENE-D8	1103	1105	1	+/- 30 SECS	
ACENAPHTHENE-D8	1491	1492	1	+/- 30 SECS	
PHENANTHRENE-D10	1812	1813	1	+/- 30 SECS	
CHRYSENE-D12	2399	2400	1	+/- 30 SECS	
PERYLENE-D12	2725	2727	1	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE	AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
NITROBENZENE-D5 (SURR)	31.1	100.0	31	23% - 120%	
2-FLUOROBIPHENYL (SURR)	49.9	100.0	50	30% - 115%	
TERPHENYL-D14 (SURR)	62.8	100.0	63	18% - 137%	
PHENOL-D5 (SURR)	-0.0	200.0	0	24% - 113%	failed
2-FLUOROPHENOL (SURR)	-0.0	200.0	0	25% - 121%	failed
2,4,6-TRIBROMOPHENOL (SU	-0.0	200.0	0	19% - 122%	failed

OK

BN only

170

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, SEMIVOLATILE SOILS

DATAFILE: A234 ANALYSIS TIME: 08/16/90 14:23
STANDARD: A230 ANALYSIS TIME: 08/16/90 10:08
TUNEFILE: A229T ANALYSIS TIME: 08/16/90 9:39

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD	DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
1,4-DICHLOROBENZENE-D4	145740.	134568.	108%	50% - 200%	
NAPHTHALENE-D8	414671.	550370.	75%	50% - 200%	
ACENAPHTHENE-D8	237517.	224384.	106%	50% - 200%	
PHENANTHRENE-D10	300696.	273811.	110%	50% - 200%	
CHRYSENE-D12	159397.	189102.	84%	50% - 200%	
PERYLENE-D12	108522.	125140.	87%	50% - 200%	

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD	DATA SCAN	STD SCAN	DIFF [IN SEC]	CLP ACCEPT DIFF	STATUS
1,4-DICHLOROBENZENE-D4	828	829	1	+/- 30 SECS	
NAPHTHALENE-D8	1102	1105	2	+/- 30 SECS	
ACENAPHTHENE-D8	1491	1492	1	+/- 30 SECS	
PHENANTHRENE-D10	1812	1813	1	+/- 30 SECS	
CHRYSENE-D12	2399	2400	1	+/- 30 SECS	
PERYLENE-D12	2726	2727	1	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE	AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
NITROBENZENE-D5 (SURR)	49.8	100.0	50	23% - 120%	
2-FLUOROBIPHENYL (SURR)	56.4	100.0	56	30% - 115%	
TERPHENYL-D14 (SURR)	135.8	100.0	136	18% - 137%	
PHENOL-D5 (SURR)	-0.0	200.0	0	24% - 113%	failed
2-FLUOROPHENOL (SURR)	-0.0	200.0	0	25% - 121%	failed
2,4,6-TRIBROMOPHENOL (SU	-0.0	200.0	0	19% - 122%	failed

OK BN 8/21

QUALITY CONTROL/QUALITY ASSURANCE DATA

METHOD: USEPA CLP, SEMIVOLATILE SOILS

DATAFILE: A231 ANALYSIS TIME: 08/16/90 11:56
STANDARD: A230 ANALYSIS TIME: 08/16/90 10:08
TUNEFILE: A229T ANALYSIS TIME: 08/16/90 9:39

****** INTERNAL STANDARD AREA CHECK ******

INTERNAL STANDARD	DATA AREA	STD AREA	RATIO	CLP ACCEPT RATIO	STATUS
1,4-DICHLOROBENZENE-D4	116881.	134568.	87%	50% - 200%	
NAPHTHALENE-D8	351399.	550370.	64%	50% - 200%	
ACENAPHTHENE-D8	204023.	224384.	91%	50% - 200%	
PHENANTHRENE-D10	269984.	273811.	99%	50% - 200%	
CHRYSENE-D12	120369.	189102.	64%	50% - 200%	
PERYLENE-D12	60400.	125140.	48%	50% - 200%	failed

****** INTERNAL STANDARD RT CHECK ******

INTERNAL STANDARD	DATA SCAN	STD SCAN	DIFF [IN SEC]	CLP ACCEPT DIFF	STATUS
1,4-DICHLOROBENZENE-D4	828	829	1	+/- 30 SECS	
NAPHTHALENE-D8	1102	1105	2	+/- 30 SECS	
ACENAPHTHENE-D8	1490	1492	1	+/- 30 SECS	
PHENANTHRENE-D10	1812	1813	1	+/- 30 SECS	
CHRYSENE-D12	2398	2400	1	+/- 30 SECS	
PERYLENE-D12	2724	2727	2	+/- 30 SECS	

****** SURROGATE RECOVERIES ******

SURROGATE	AMT FOUND	AMT ADDED	PERCENT RECOVERY	RECOV LIMITS	STATUS
NITROBENZENE-D5 (SURR)	19.5	100.0	20	23% - 120%	failed
2-FLUOROBIPHENYL (SURR)	25.3	100.0	25	30% - 115%	failed
TERPHENYL-D14 (SURR)	31.3	100.0	31	18% - 137%	
PHENOL-D5 (SURR)	-0.0	200.0	0	24% - 113%	failed
2-FLUOROPHENOL (SURR)	-0.0	200.0	0	25% - 121%	failed
2,4,6-TRIBROMOPHENOL (SU	-0.0	200.0	0	19% - 122%	failed

BN only

TUNING INFORMATION

HAZARDOUS WASTE ENGINEERING CONSULTANTS INC.
ENVIRONMENTAL LABORATORY

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

CLIENT: HWEC
WHIPPANY PAPER BOARD

File ID: A229T Date: 08/16/90 Time: 9:39

Data Release Authorized By: Gregory Kelly

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.5 (45.5)*
68	Less than 2.0% of mass 69	1.2
69	Mass 69 relative abundance	37.0 (37.0)*
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 1.00% of mass 198	2.6
441	Present, but less than mass 443	65.0
442	Greater than 40.0% of mass 198	90.4
443	17.0 - 23.0% of mass 442	19.9 (18.0)**

* value is % mass 69
** value is % mass 442

This performance tune applies to the following samples, blanks and standards

SAMPLE ID	FILE ID	LAB ID	DATE	TIME
	A230	SSTD50	8/16/90	10:08
PE-3	A231	3016 RX	8/16/90	11:56
PE-3A	A233	3018 RX	8/16/90	13:33
	A234	SBLK RX	8/16/90	14:23
PE-1	A235	3009 RX	8/16/90	15:17
PE-2	A236	3013 RX	8/16/90	16:40

HAZARDOUS WASTE ENGINEERING CONSULTANTS INC.
ENVIRONMENTAL LABORATORY

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

CLIENT: HWEC
WHIPPANY PAPER BOARD

174

File ID: A223T Date: 08/15/90 Time: 11:27

Data Release Authorized By: J Finigan-Kelly

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.5 (53.5)*
68	Less than 2.0% of mass 69	0.6
69	Mass 69 relative abundance	50.9 (50.9)*
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	52.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	12.6
365	Greater than 1.00% of mass 198	1.2
441	Present, but less than mass 443	61.2
442	Greater than 40.0% of mass 198	66.9
443	17.0 - 23.0% of mass 442	20.6 (13.8)**

* value is % mass 69
** value is % mass 442

This performance tune applies to the following samples, blanks and standards

SAMPLE ID	FILE ID	LAB ID	DATE	TIME
	A224	SSTD50	8/15/90	11:41
FB-13	A226	FB3007	8/15/90	15:29

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building 8, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

PETROLEUM HYDROCARBONS

CLIENT: WHIPPANY PAPER BOARD DATE: AUGUST 27, 1990

SAMPLE #	DATE SAMPLED	DATE ANALYZED	LAB #	PHC(WET) mg/kg	PHC(DRY) mg/kg	%H_2O
WPB-PE4	8/22/90	8/23/90	3078A	15	16	8.1
WPB-PE4	8/22/90	8/23/90	3078B	12	13	7.4
WPB-PE4A	8/22/90	8/23/90	3079	14	15	7.8
METHOD BLANK		8/23/90	MB0049		16	
SPIKE		8/23/90	3079S		% RECOVERY = 82	

WATER

			[PHC] mg/l
WPB-FB16		8/23/90	3080	0.26
METHOD BLANK		8/23/90	MB0050	0.62

PR

Philip D. Readio PhD.
HWEC Lab Director

946010457

ABK000840

MATRIX SPIKE RESULTS

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RMC-ECL Contract: ----

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

Matrix Spike - EPA Sample No.: CRP-PE3A Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3580.00	N	N	N	26- 90
2-Chlorophenol	3580.00	N	N	N	25-102
1,4-Dichlorobenzene	1790.00	0.00	1060.00	59	28-104
N-Nitroso-di-n-prop.(1)	1790.00	0.00	1160.00	65	41-126
1,2,4-Trichlorobenzene	1790.00	0.00	1320.00	73	38-107
4-Chloro-3-methylphenol	3580.00	N	N	N	26-103
Acenaphthene	1790.00	0.00	1700.00	94	31-137
4-Nitrophenol	3580.00	N	N	N	11-114
2,4-Dinitrotoluene	1790.00	0.00	1290.00	72	28- 89
Pentachlorophenol	3580.00	N	N	N	17-109
Pyrene	1790.00	0.00	1970.00	110	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3580.00	N	N	N	35	26- 90
2-Chlorophenol	3580.00	N	N	N	50	25-102
1,4-Dichlorobenzene	1790.00	1510.00	84	34 *	27	28-104
N-Nitroso-di-n-prop.(1)	1790.00	1310.00	72	10	38	41-126
1,2,4-Trichlorobenzene	1790.00	1510.00	84	14	23	38-107
4-Chloro-3-methylphenol	3580.00	N	N	N	33	26-103
Acenaphthene	1790.00	1700.00	94	0	19	31-137
4-Nitrophenol	3580.00	N	N	N	50	11-114
2,4-Dinitrotoluene	1790.00	1290.00	72	0	47	28- 89
Pentachlorophenol	3580.00	N	N	N	47	17-109
Pyrene	1790.00	2110.00	117	6	36	35-142

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

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits
N Values not reported
RPD: 1 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: See spiked blank for 1,4-dichlorobenzene recovery.

QUANT REPORT

Operator ID: LBK
Output File: ^C1544::E1
Data File: >C1544::D4
Name: 5856 MS
Misc: CRP-PE3A MS

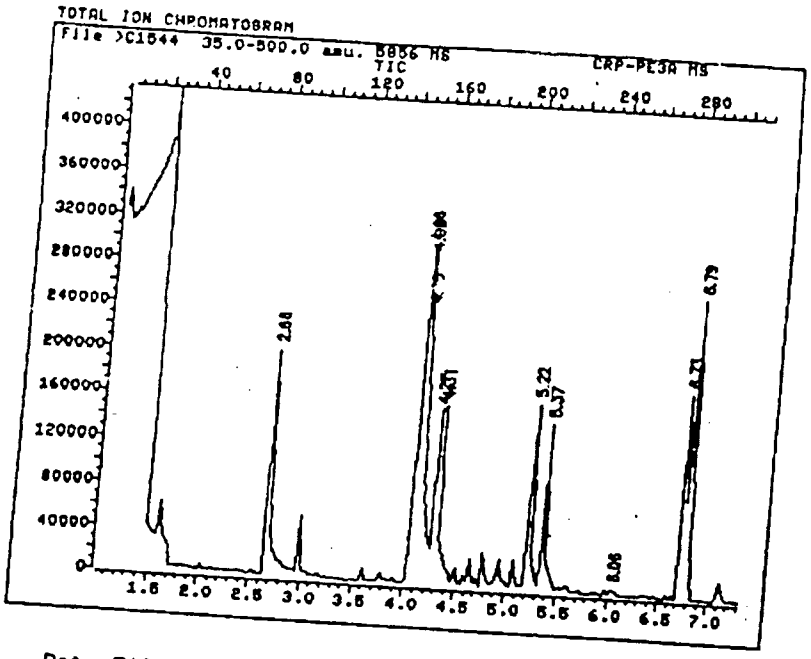
Quant Rev: 6
Quant Time: 900827 15:39
Injected at: 900827 15:01
Dilution Factor: 1.00000

BTL# 8

ID File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	4.27	152.0	64887	40.00	UG/L	95
3)	2-Fluorophenol	2.66	112.0	129058	75.27	UG/L	88
5)	Phenol-d5	4.08	99.0	185834	86.71	UG/L	82
6)	Phenol	4.10	94.0	191511	75.08	UG/L	88
7)	2-Chlorophenol	4.06	128.0	114944M	64.54	UG/L	
8)	1,3-Dichlorobenzene	4.31	146.0	55758	26.67	UG/L	92
9)	1,4-Dichlorobenzene	4.31	146.0	55758	29.67	UG/L	93
15)	N-Nitroso-Di-n-propylamine	5.22	70.0	75307	32.54	UG/L	98
17)	*Naphthalene-d8	6.79	136.0	251333	40.00	UG/L	100
18)	Nitrobenzene-d5	5.37	82.0	100310	31.75	UG/L	96
21)	2-Nitrophenol	6.06	139.0	1476	.89	UG/L	94
25)	1,2,4-Trichlorobenzene	6.73	180.0	82872	36.84	UG/L	94
30)	4-Chloro-3-methylphenol	8.58	107.0	166780	62.69	UG/L	91
32)	*Acenaphthene-d10	10.90	164.0	138552	40.00	UG/L	93
36)	2-Fluorobiphenyl	9.41	172.0	175913	45.50	UG/L	99
39)	Acenaphthylene	10.51	152.0	1500	.25	UG/L	79
42)	Acenaphthene	10.98	153.0	177191	47.49	UG/L	98
46)	2,4-Dinitrotoluene	11.63	165.0	61225	36.00	UG/L	96
47)	4-Nitrophenol	12.02	109.0	239447M	60.74	UG/L	
52)	*Phenanthrene-d10	14.42	188.0	230843	40.00	UG/L	97
56)	2,4,6-Tribromophenol	12.87	330.0	44963	69.93	UG/L	97
59)	Pentachlorophenol	14.30	266.0	48431	63.11	UG/L	99
60)	Phenanthrene	14.48	178.0	1182	.22	UG/L	97
61)	Anthracene	14.48	178.0	1182	.23	UG/L	92
62)	Di-n-butylphthalate	16.40	149.0	1943	.25	UG/L	100
63)	Fluoranthene	17.39	202.0	1284	.23	UG/L	81
64)	*Chrysene-d12	20.93	240.0	93961	40.00	UG/L	93
65)	Pyrene	17.90	202.0	215615	55.08	UG/L	71
67)	Terphenyl-d14	18.53	244.0	146599	48.30	UG/L	88
72)	bis(2-Ethylhexyl)phthalate	21.63	149.0	5968	2.35	UG/L	95
73)	*Perylene-d12	24.50	264.0	43486	40.00	UG/L	83

* Compound is ISTD



Data File: >C1544::D4
Name: 5856 MS
Misc: CRP-PE3A MS

Quant Output File: ^C1544::E1

Id File: IABNH3::D8

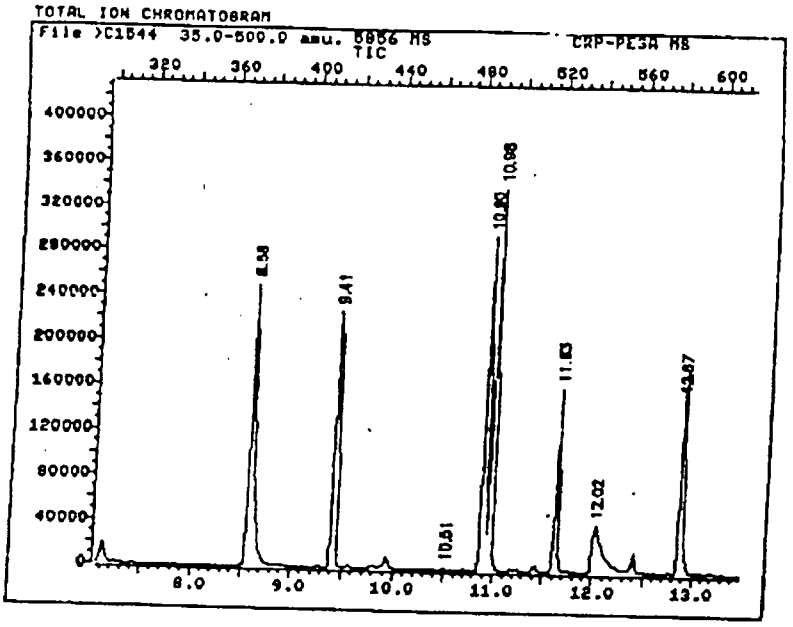
BTL# 8

Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 15:39
Injected at: 900827 15:01

TIC page 1 of 6

TOTAL ION CHROMATOGRAM



Data File: >C1544::D4
Name: 5856 MS
Misc: CRP-PE3A MS

Quant Output File: ^C1544::E1

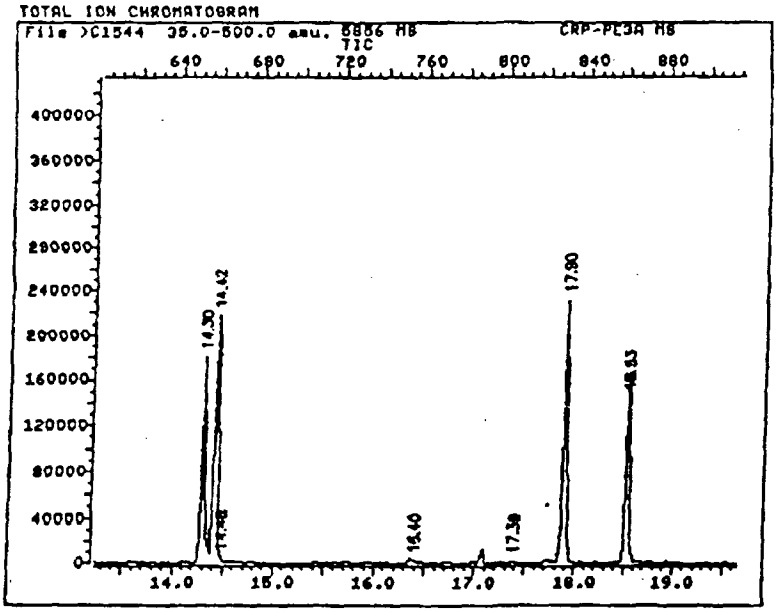
BTL# 8

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 15:39
Injected at: 900827 15:01

TIC page 2 of 6

TOTAL ION CHROMATOGRAM



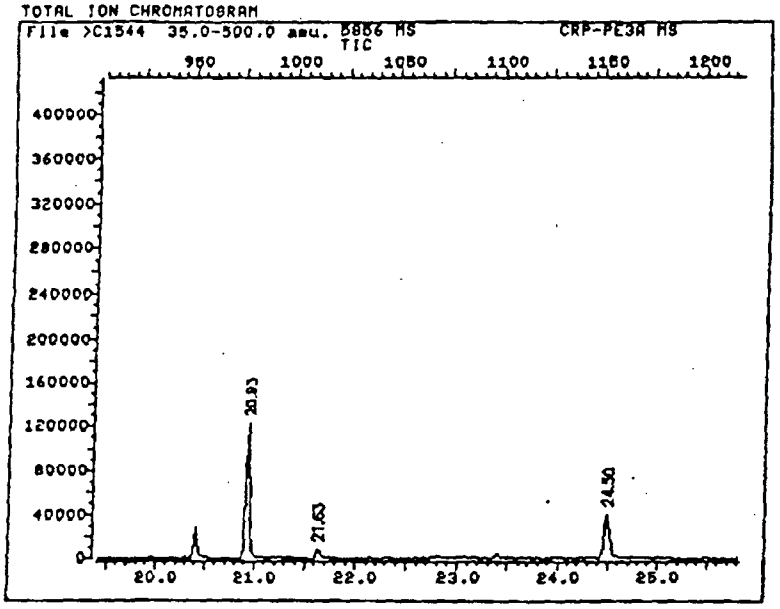
Data File: >C1544::D4 Quant Output File: ^C1544::E1
Name: 5856 MS
Misc: CRP-PE3A MS BTL# 8

Id File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 15:39
Injected at: 900827 15:01

TIC page 3 of 6

TOTAL ION CHROMATOGRAM



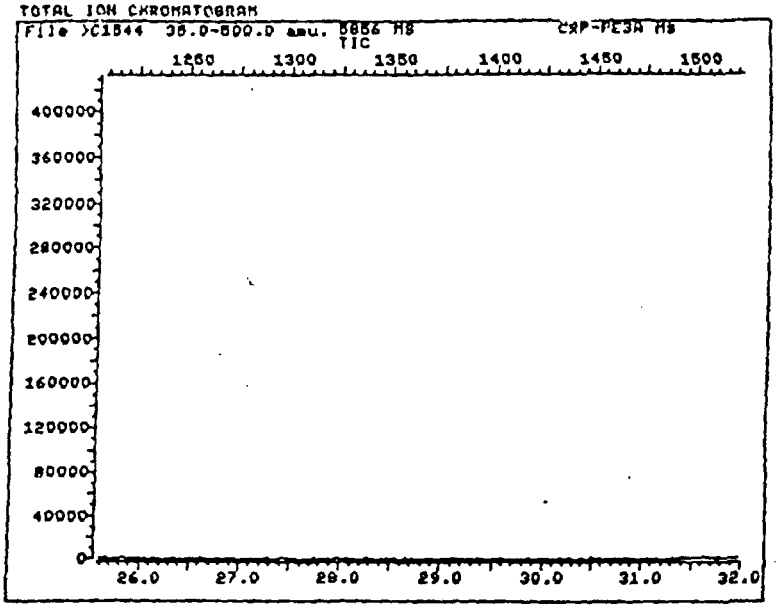
Data File: >C1544::D4 Quant Output File: ^C1544::E1
Name: 5856 MS
Misc: CRP-PE3A MS BTL# 8

Id File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 15:39
Injected at: 900827 15:01

TIC page 4 of 6

TOTAL ION CHROMATOGRAM



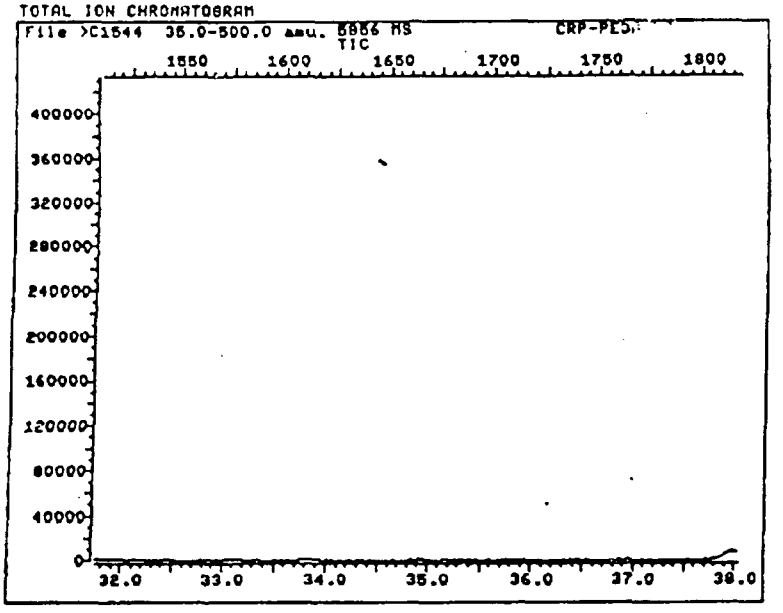
Data File: >C1544::D4 Quant Output File: ^C1544::E1
Name: 5856 MS
Misc: CRP-PE3A MS BTL# 8

Id File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 15:39
Injected at: 900827 15:01

TIC page 5 of 6

TOTAL ION CHROMATOGRAM



Data File: >C1544::D4 Quant Output File: ^C1544::E1
Name: 5856 MS
Misc: CRP-PE3A MS BTL# 8

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 15:39
Injected at: 900827 15:01

TIC page 6 of 6

QUANT REPORT

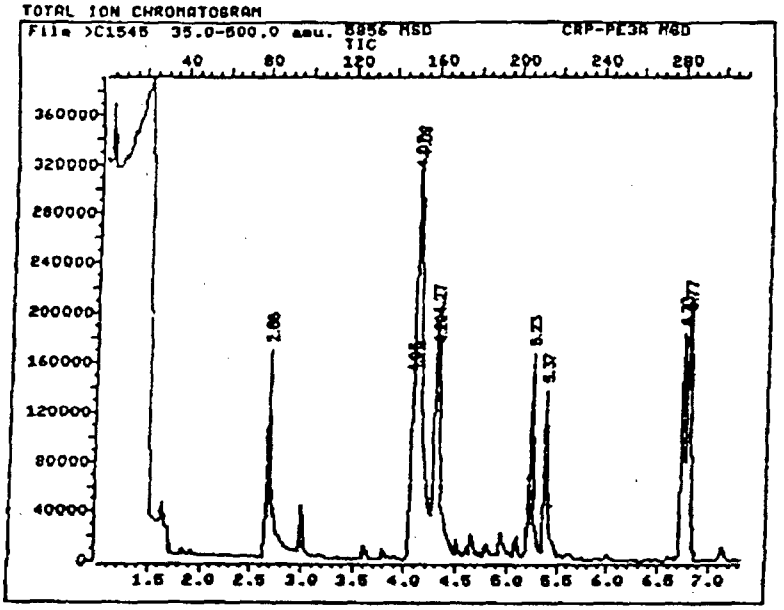
Operator ID: LBK Quant Rev: 6 Quant Time: 900827 16:26
Output File: ^C1545::E1 Injected at: 900827 15:47
Data File: >C1545::D4 Dilution Factor: 1.00000
Name: 5856 MSD
Misc: CRP-PE3A MSD BTL# 9

ID File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	4.27	152.0	64235	40.00	UG/L	97
3)	2-Fluorophenol	2.66	112.0	129195	76.12	UG/L	80
5)	Phenol-d5	4.07	99.0	181975	85.77	UG/L	83
6)	Phenol	4.09	94.0	196999	78.02	UG/L	89
7)	2-Chlorophenol	4.05	128.0	147530	83.67	UG/L	92
8)	1,3-Dichlorobenzene	4.29	146.0	78623	37.99	UG/L	98
9)	1,4-Dichlorobenzene	4.29	146.0	78623	42.26	UG/L	97
15)	N-Nitroso-Di-n-propylamine	5.23	70.0	83534	36.46	UG/L	90
17)	*Naphthalene-d8	6.77	136.0	233739	40.00	UG/L	100
18)	Nitrobenzene-d5	5.37	82.0	99235	33.78	UG/L	99
25)	1,2,4-Trichlorobenzene	6.73	180.0	88126	42.13	UG/L	86
30)	4-Chloro-3-methylphenol	8.59	107.0	197447	79.80	UG/L	99
32)	*Acenaphthene-d10	10.90	164.0	138872	40.00	UG/L	90
36)	2-Fluorobiphenyl	9.42	172.0	171748	44.32	UG/L	98
39)	Acenaphthylene	10.52	152.0	1678	.28	UG/L	93
42)	Acenaphthene	10.99	153.0	177167	47.38	UG/L	97
46)	2,4-Dinitrotoluene	11.64	165.0	61574	36.12	UG/L	88
47)	4-Nitrophenol	12.00	109.0	23532M	59.55	UG/L	
52)	*Phenanthrene-d10	14.43	188.0	212180	40.00	UG/L	95
56)	2,4,6-Tribromophenol	12.88	330.0	43764	74.05	UG/L	95
59)	Pentachlorophenol	14.30	266.0	49746	70.53	UG/L	95
62)	Di-n-butylphthalate	16.40	149.0	1484	.21	UG/L	100
63)	Fluoranthene	17.40	202.0	2291	.45	UG/L	73
64)	*Chrysene-d12	20.92	240.0	94897	40.00	UG/L	92
65)	Pyrene	17.90	202.0	232532	58.81	UG/L	70
67)	Terphenyl-d14	18.54	244.0	147239	48.03	UG/L	93
69)	Benzo(a)anthracene	20.98	228.0	1030	.37	UG/L	92
71)	Chrysene	20.98	228.0	1030	.41	UG/L	88
72)	bis(2-Ethylhexyl)phthalate	21.63	149.0	3290	1.28	UG/L	97
73)	*Perylene-d12	24.48	264.0	64908	40.00	UG/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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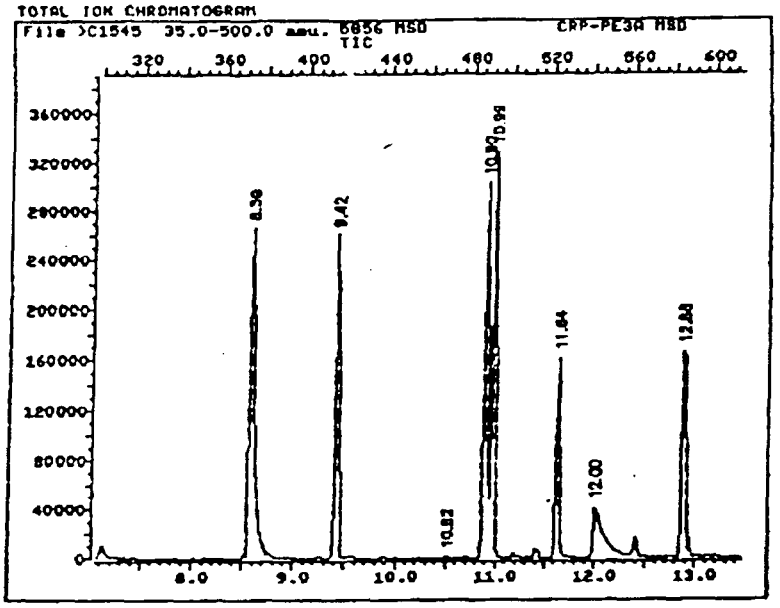
Misc: CRP-PE3A MSD BTL# 9

Id File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 16:26
Injected at: 900827 15:47

TIC page 1 of 6

TOTAL ION CHROMATOGRAM



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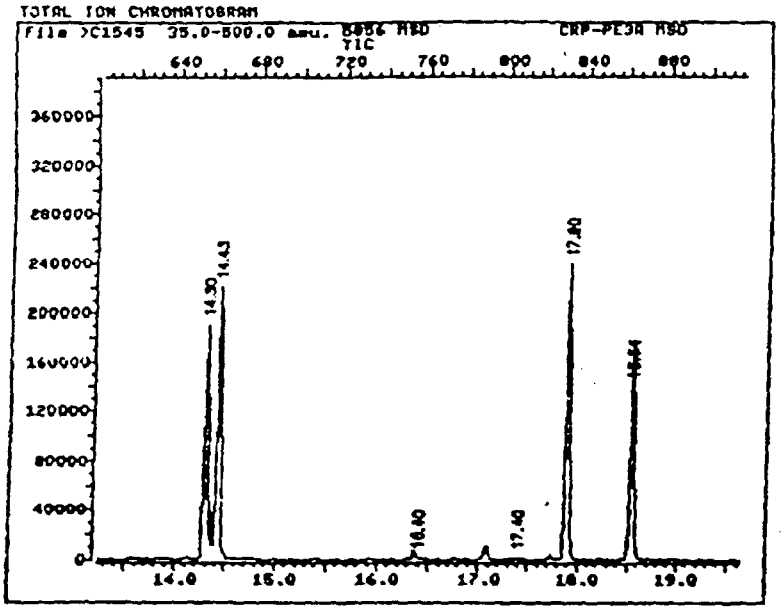
Name: 5856 MSD
Misc: CRP-PE3A MSD BTL# 9

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 16:26
Injected at: 900827 15:47

TIC page 2 of 6



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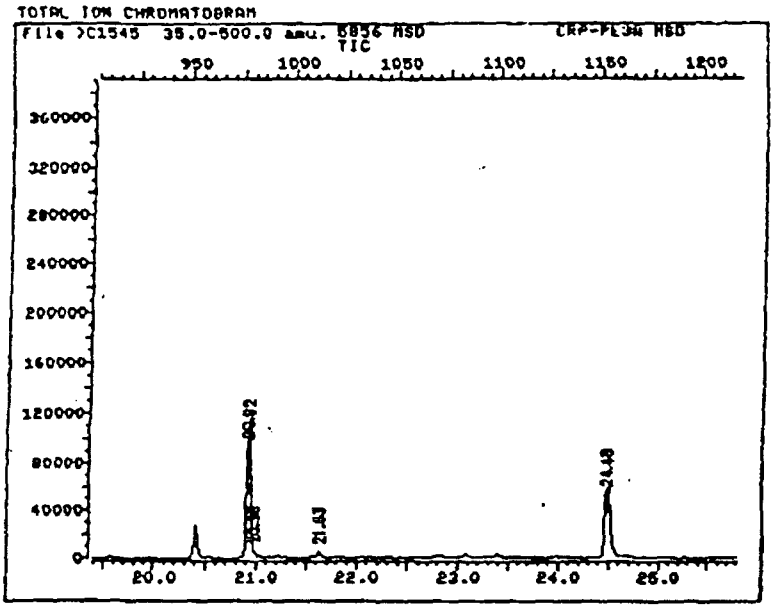
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 16:26
Injected at: 900827 15:47

TIC page 3 of 6



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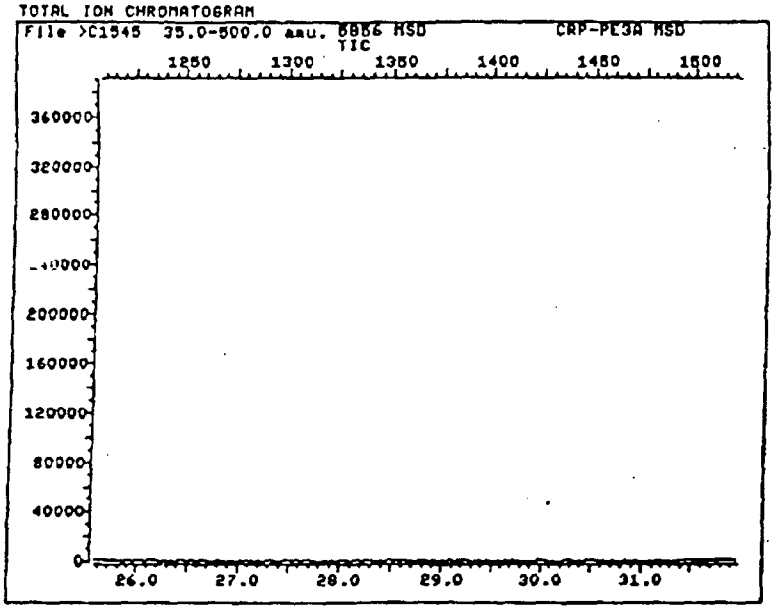
Id File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 16:26
Injected at: 900827 15:47

TIC page 4 of 6

TOTAL ION CHROMATOGRAM



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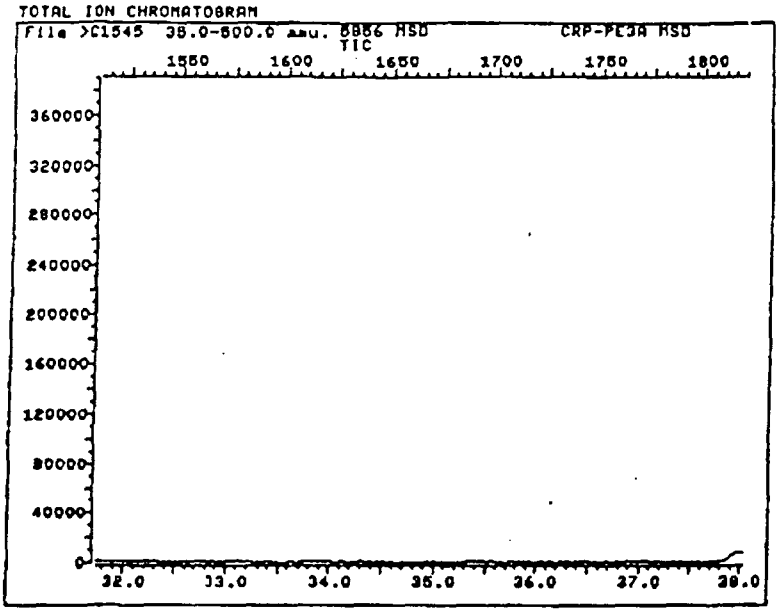
Id File: IABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 16:26
Injected at: 900827 15:47

TIC page 5 of 6

TOTAL ION CHROMATOGRAM



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Misc: CRP-PE3A MSD BTL# 9

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 16:26
Injected at: 900827 15:47

TIC page 6 of 6

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:RMC-ECL Contract:----

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

Matrix Spike - EPA Sample No.: SBLK02 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3340.00	N	N	N	26- 90
2-Chlorophenol	3340.00	N	N	N	25-102
1,4-Dichlorobenzene	1670.00	0.00	1560.00	93	28-104
N-Nitroso-di-n-prop.(1)	1670.00	0.00	1510.00	90	41-126
1,2,4-Trichlorobenzene	1670.00	0.00	1750.00	105	38-107
4-Chloro-3-methylphenol	3340.00	N	N	N	26-103
Acenaphthene	1670.00	0.00	1500.00	89	31-137
4-Nitrophenol	3340.00	N	N	N	11-114
2,4-Dinitrotoluene	1670.00	0.00	1350.00	80	28- 89
Pentachlorophenol	3340.00	N	N	N	17-109
Pyrene	1670.00	0.00	1560.00	93	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3340.00	0.00	0		35	26- 90
2-Chlorophenol	3340.00	0.00	0		50	25-102
1,4-Dichlorobenzene	1670.00	0.00	0		27	28-104
N-Nitroso-di-n-prop.(1)	1670.00	0.00	0		38	41-126
1,2,4-Trichlorobenzene	1670.00	0.00	0		23	38-107
4-Chloro-3-methylphenol	3340.00	0.00	0		33	26-103
Acenaphthene	1670.00	0.00	0		19	31-137
4-Nitrophenol	3340.00	0.00	0		50	11-114
2,4-Dinitrotoluene	1670.00	0.00	0		47	28- 89
Pentachlorophenol	3340.00	0.00	0		47	17-109
Pyrene	1670.00	0.00	0		36	35-142

1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
Values outside of qc limits
Values not reported
RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: These results are for the spiked blank.

FORM III SV-2 1/87 Rev.

QUANT REPORT

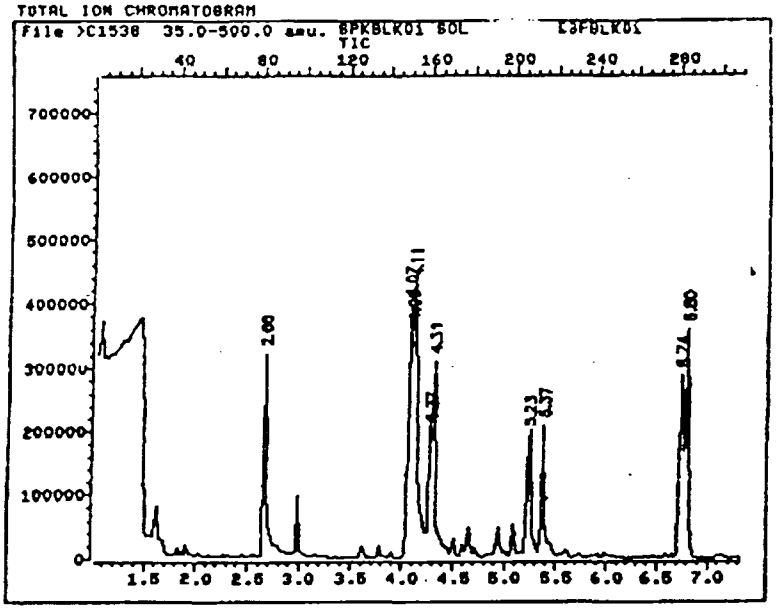
Operator ID: LBK Quant Rev: 6 Quant Time: 900827 11:00
Output File: ^C1538::E1 Injected at: 900827 10:21
Data File: >C1538::D4 Dilution Factor: 1.00000
Name: SPKBLK01 SOL
Misc: SSPBLK01 BTL# 2

ID File: 1ABNH3::DB
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	4.27	152.0	77447	40.00	UG/L	92
3)	2-Fluorophenol	2[illegible]	112.0	176694	86.34	UG/L	84
5)	Phenol-d5	4.[illegible]	99.0	222341	86.92	UG/L	83
6)	Phenol	4.11	94.0	255977	84.08	UG/L	96
7)	2-Chlorophenol	4.07	128.0	145450M	68.42	UG/L	
8)	1,3-Dichlorobenzene	4.31	146.0	105135	42.14	UG/L	95
9)	1,4-Dichlorobenzene	4.31	146.0	105135	46.87	UG/L	96
15)	N-Nitroso-Di-n-propylamine	5.23	70.0	124947	45.23	UG/L	99
17)	*Naphthalene-d8	6.80	136.0	305136	40.00	UG/L	100
18)	Nitrobenzene-d5	5.37	82.0	133160	34.72	UG/L	96
25)	1,2,4-Trichlorobenzene	6.74	180.0	143585	52.58	UG/L	89
30)	4-Chloro-3-methylphenol	8.59	107.0	255468	79.09	UG/L	88
32)	*Acenaphthene-d10	10.91	164.0	198944	40.00	UG/L	94
36)	2-Fluorobiphenyl	9.42	172.0	258453	46.56	UG/L	97
39)	Acenaphthylene	10.52	152.0	1945	.22	UG/L	92
42)	Acenaphthene	10.99	153.0	240939	44.98	UG/L	95
46)	2,4-Dinitrotoluene	11.64	165.0	98822	40.47	UG/L	87
47)	4-Nitrophenol	12.03	109.0	43424M	76.70	UG/L	
49)	Diethylphthalate	12.37	149.0	1175	.19	UG/L	90
52)	*Phenanthrene-d10	14.45	188.0	327976	40.00	UG/L	86
56)	2,4,6-Tribromophenol	12.90	330.0	89558	98.03	UG/L	98
59)	Pentachlorophenol	14.31	266.0	93757	86.00	UG/L	91
62)	Di-n-butylphthalate	16.40	149.0	1753	.16	UG/L	100
64)	*Chrysene-d12	20.94	240.0	179326	40.00	UG/L	99
65)	Pyrene	17.91	202.0	348577	46.66	UG/L	76
67)	Terphenyl-d14	18.56	244.0	261488	45.14	UG/L	79
72)	bis(2-Ethylhexyl)phthalate	21.63	149.0	2192	.45	UG/L	94
73)	*Perylene-d12	24.50	264.0	139111	40.00	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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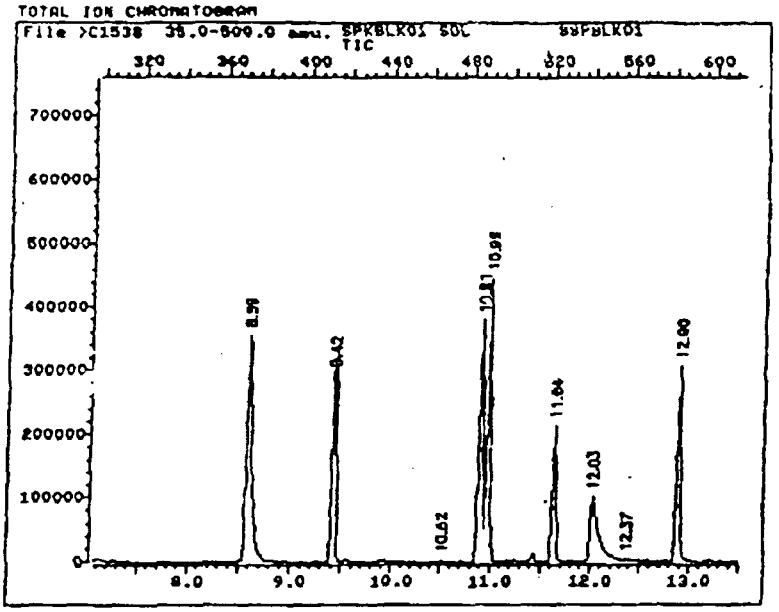
Misc: SSPBLK01 BTL# 2

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 11:00
Injected at: 900827 10:21

TIC page 1 of 6



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Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 11:00
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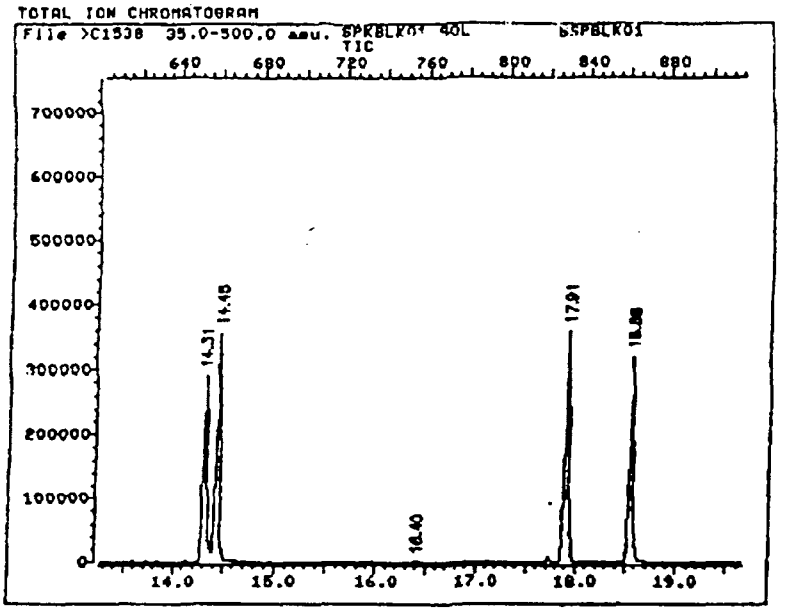
TIC page 2 of 6



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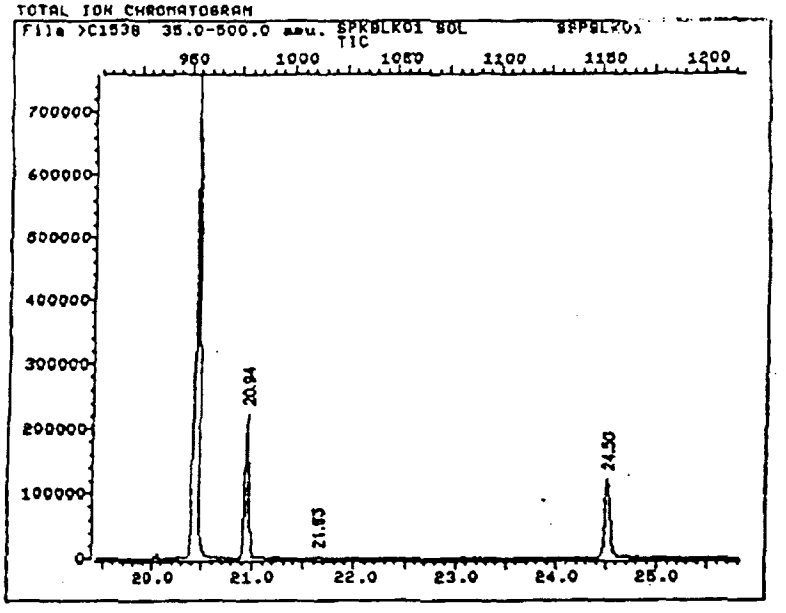
Misc: SSPBLK01 BTL# 2

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 11:00
Injected at: 900827 10:21

TIC page 3 of 6



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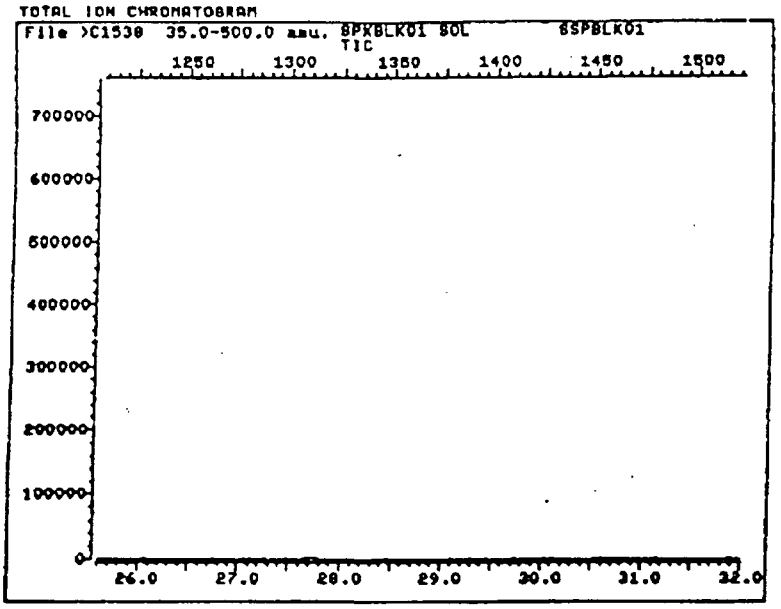
Misc: SSPBLK01 BTL# 2

Id File: lABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 11:00
Injected at: 900827 10:21

TIC page 4 of 6

TOTAL ION CHROMATOGRAM



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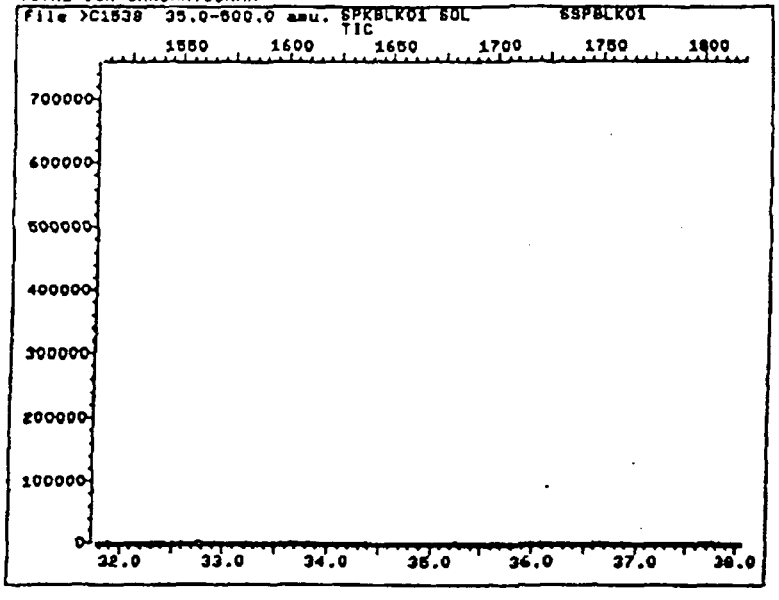
Misc: SSPBLK01 BTL# 2

Id File: !ABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 11:00
Injected at: 900827 10:21

TIC page 5 of 6

TOTAL ION CHROMATOGRAM



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Name: SPKBLK01 SOL
Misc: SSPBLK01 BTL# 2

Id File: IABNH3::D8
Title: ACID BASE/NEUTRAL HAZARDOUS SUBSTANCES
Last Calibration: 900827 09:30

Operator ID: LBK
Quant Time: 900827 11:00
Injected at: 900827 10:21

TIC page 6 of 6

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.
47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000
• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

October 24, 1990

Cleanup Oversight Section
BEECRA
New Jersey Department of Environmental Protection
CN 028
Trenton, New Jersey 08625-0028
Attn: Mr. John Graham, Case Manager

RE: Whippany Paperboard Co.
Clifton City/Passaic County
ECRA Case # 85193

Dear Mr. Graham:

Hazardous Waste Engineering Consultants is pleased to submit this progress report on cleanup activities to date at Whippany Paperboard, Clifton, New Jersey.

On September 13, 1990, waste classification sample material was collected from the stockpiled soil which was excavated from the aboveground storage tank area at Whippany. The sample, which was designated as WPBWC-3, was submitted for the following analyses: Corrosivity, Ignitability, Reactivity, Total Petroleum Hydrocarbons, TCLP Volatile Organic Compounds, TCLP Pesticides, TCLP Metals and PCBs.

The laboratory analysis revealed that the soil was not corrosive, not ignitable and not reactive. The detected level of petroleum hydrocarbons in the sample was 3,520 mg/kg. TCLP Volatile Organic Compounds were detected at a concentration of 0.12 µg/kg. TCLP Metals were detected at the following concentrations: arsenic, 0.0017 mg/l; barium, 1.5 mg/l; cadmium, 0.05 mg/l; chromium, <0.05 mg/l; lead, 5.08 mg/l; mercury, 0.00015 mg/l; selenium, 0.0017 mg/l and silver, 0.05 mg/l. TCLP Pesticides and PCBs were not detected.

The detected level of lead in the soil sample is above the RCRA threshold limit and classifies the soil as a RCRA hazardous waste. HWEC is presently awaiting landfill

approval for the disposal of the stockpiled soil, which is expected by November 1, 1990. At that time, the soil will be transported to a hazardous waste landfill for disposal. If you have any questions about this information, please contact us at (914) 762-9000.

Sincerely,
HAZARDOUS WASTE ENGINEERING CONSULTANTS

Leonard H. Robbins IV
Project Manager

LR/lw
f:wpbprog2.rep

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

47 Hudson Street, Building B, Ossining, NY 10562 • (914) 762-9000

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

December 13, 1990

Cleanup Oversight Section
BEECRA
New Jersey Department of Environmental Protection
CN 028
Trenton, New Jersey 08625-0028
Attn: Mr. John Graham, Case Manager

RE: Whippany Paperboard Co.
Clifton City/Passaic County
ECRA Case # 85193

Dear Mr. Graham:

Hazardous Waste Engineering Consultants is pleased to submit this progress report on cleanup activities to date at Whippany Paperboard, Clifton, New Jersey.

On December 7, 1990, the stock-piled soil was transported for disposal at the Chemical Waste disposal facility in Model City, New York. Approximately 17.08 tons of soil were removed for disposal. The remaining ten (10) tons of soil will be removed once the first load has been successfully stabilized. The waste manifests associated with the disposal of this soil will be included in our final report. We expect that the report will be submitted for your review by December 30, 1990.

Cleanup Schedule and Costs

With the disposal of the soil which was removed from the vicinity of the fill pipe to the 160,000 gallon above ground storage tank, 100% of the cleanup program has been completed.

The completed cleanup work to date includes: the excavation of the soil in the drum storage area and in the vicinity of the fill pipe to the above ground storage tank, the

collection of post-excavation samples from the areas of excavation, the disposal of the contaminated soils and the sampling of the soil around the transformer pad.

The extended duration of the Whippany Paperboard Project precludes an exact calculation of the cleanup costs to date, however, since January, 1990, the costs of the Cleanup Plan to Whippany Paperboard have been approximately $ 43,850.00.

Sincerely,
HAZARDOUS WASTE ENGINEERING CONSULTANTS

Gregg Chappell
Assistant Project Manager

LR/gc
f:wpbprog4.rep

April 30, 1928.

Mr. J. Ralph Van Duyne,
Chief Engineer,
Passaic Valley Sewerage Commission,
Newark, N.J.

Dear Sir:-

The following is a list, very complete, of sources of pollution:-

TOWN SEWERS.

Bloomfield.

Sanitary sewer at Glenwood and Llewelyn Aves frequently overflows manhole and runs into Second River.

Sanitary sewer in Watsessing Park at Roosevelt Avenue broken sewage constantly escaping to Second River.

Storm sewer at Franklin Street bridge discharges chemical industrial wastes to Second River.

Storm sewer at Glenwood Avenue and Llewelyn Avenue discharges sanitary sewage to Second River.

Storm sewer at Parrand Street, discharges acid wastes to Toney's Brook, tributary to Second River.

Meadowbrook culvert discharges laundry and chemical wastes to Meadow Brook, tributary to Second River.

Belleville.

Sanitary sewer east of Belwood Park depot continually discharging sewage to Second River.

Sanitary sewer from Belwood Park section, north of Erie R.R., continuously discharging sewage to Second River.

Sanitary sewer, near Copper Mills, appears broken. Continuous seepage through wall into Second River.

Storm sewer, foot of Little Street, discharges acid wastes with heavy red sediment from chemical works.

Storm sewer, foot of Joralemon Street, suspicious discharge at times.

KLL006315

ABK000999

946010489

Clifton.

Sewer on bridge over canal at Ackerman Avenue. This sewer has recently been replaced with new pipe. The serious leakage from the old joints appears to have been eliminated. When Clifton Paper mills pump steadily, the manholes begin to spout. Sewer appears to be partly stopped farther along line. While old complaint against this sewer is now eliminated it is too early to give a clean bill of health.

Sewer in golf grounds, taking waste from Kirman Rug Co., frequently overflows manholes, thence direct to Third River.

Hawthorne.

Four sewers in vicinity of 6th. Avenue Bridge. All discharge sanitary sewage. Recently there has appeared dyewaste in two of these sewers. The County and Boro of Hawthorne both disclaim responsibility. Much of this pollution may come from Prospect Park.

Kearny.

Sanitary sewer at Duke Street. Houses connected beyond interceptor.
" " " Tappan Avenue. Houses connected beyond interceptor.
According to information received additional permits have been recently granted to connect with these sections of sewers.

Two storm sewers near foot of Bergen Avenue. Most of sewage formerly going in here has been disconnected. There is still suspicion of a small residue of sewage coming from these two outlets.

Montclair.

Sanitary sewer at Glen Ridge Avenue. Bypass frequently overflows sewage to Toney's Brook.

Pine Street. Sanitary sewage frequently overflows to Toney's Brook.

Newark.

Sanitary sewer. Meadowbrook sewer discharges in two places in vicinity of old Forest Hill Golf Grounds. The largest discharge now takes place from broken manhole near old canal bridge.
Connecting pipe under bridge at Heller Parkway and Franklin Street (Silver Lake) was recently removed allowing of serious discharge of sewage, again from Meadowbrook sewer. This pipe has been replaced though both Belleville and Newark disclaimed responsibility of breaking it.

Sanitary sewer, east of Mt. Prospect Ave. Seepage through wall apparently from broken sewer.

Clay Street. Some old sewers which were never connected into our line. Now discharging sewage at times.

KLL006318

ABK001000

946010490

TOWN SEWERS, Continued.

Newark, Continued.

Sewer at Delavan Avenue. Frequently discharging sewage to river.

The foregoing discharges in Newark have no relation to rainstorms. In the following list we have notations of discharges taking place in mornings but eliminated in the afternoons. Though we have no record of the weather they undoubtedly are due to rains. They are only mentioned as showing that prompt stoppage after storms will have a very direct bearing on the condition of the river through Newark:-

Fourth Avenue.
Saybrook Place.
Polk Street.

Nutley.

Storm sewer at Avondale Bridge. Discharges dyewaste and hair from hat factory. Drainage from dumps also carried in here.

Orange.

Storm sewer at Washington Street. Recently we had a very serious discharge of sanitary sewage found to be overflowing from a blocked sanitary sewer. Discharge going to Second River. By keeping an inspector after the town officials for two weeks this discharge was eliminated. It will take place again any time the snaitary sewer becomes blocked.

Passaic.

Sanitary sewer at Park Place. This will undoubtedly be eliminated in new river crossing now under construction.

Paterson.

Lowe Street. Dyewaste.
Wood Street. Dyewaste.
Keen Street. Sanitary sewage from about 3 houses.
North Straight Street. Sanitary sewage from several houses.
Warren Street. Dye waste.
4th Avenue and 12th Street. Dyewaste.
6th Avenue. Dyewaste.
3rd Avenue and Boulevard. Sanitary and dyewaste.
5th Ave. and East 5th Street. Occasional dyewaste.
2nd Avenue and Boulevard. Dyewaste.
Totowa sewer. Report just to hand, grey discharge now appearing from this sewer. Being investigated at present writing.

Lyndhurst.

sanitary sewer at Post Ave. Overflowing manhole and going to brook.

KI 006317

ABK001001

946010491

HOUSES DISCHARGING DIRECTLY TO RIVER.

This list of houses is probably not complete, particularly in Paterson. Since the last report, many houses have connected up to sewer and their names removed from list.

Belleville.

160-162 Main Street.
190 Main Street. Louis Moskowitz, owner.
150-152 Main Street. B. Darress, owner. Now vacant.
164-166 Main Street. G. Guarino, owner.
158 Main Street. A.D.Silver, owner.
172 Main Street, Harry Stevens, owner.
182 (182) Main Street. John Cassidy, owner.

All this old property in Main Street, Belleville, should be cleaned up as regards pollution. The local Board of Health was reported as investigating last August. No report as to their findings is available. The fact that some of the houses have become vacant, and some are expecting to be bought by the Park Commission, has been the cause of some delay in making sewer connections.

Carlton Hill.

One house discharging sewage to brook at Erie R.R. near depot.

Garfield.
#2 Monroe Street. Anthony Kasica, owner.

Hawthorne.
13 Passaic Avenue. Sink waste, no sanitary sewage.
11 " " " " " " "
348 Wagaraw Road. 2 houses. Sanitary waste to river.

Paterson.
140 - 148 Water Street. J. Loius Owner.
101 West Broadway. J. Addy, owner.
755 River Street, V. Bonello, owner.
757 River Street. S. Senn, owner.
12 Spruce Street.

KLL006318

946010492

ABK001002

Sanitary sewage pollutions from boatyards and clubs.

The boat clubs are the most direct beneficiaries from an improved river, yet they still continue to add to its pollution. They are separtely listed in this report.

Belleville Motor Boat Club. 140 Main Street, Belleville.
Fred Holt Boatyard, 291 Riverside Ave. Newark, N.J.(Privy)
Institute Boat Club, Foot of Delavan Ave. Newark.
Nereid Boat Club, 24 Main Street, Belleville.
Newark Motor and Yacht Club. 291 Riverside Ave. Newark.

POLLUTIONS FROM INDUSTRIAL PLANTS

Sanitary sewage only.

Bradford Mills, Passaic. A.H. Lipsky, Passaic. Waterhouse Mill, Passaic.	These properties belonging to Campbell, Morrell Co. and Kaplan Realty Co., will be eliminated as polluters when new river crossing, now under construction, is completed.
Congdon Mill, Paterson.	The latest information is that this sewer connection will be completed in 2 weeks from date.
Elmwood Country Club.	Septic tank followed by sand diffusion is going to be installed. Prices on septic tank are now being obtained.
Industry Mill, Pheonix Mill, Harmony Mill. Paterson.	About two years ago a pipe was started in river bed to join in at Prospect St. High water in river halted operations and nothing has been done since. The excuse is that water has never been low since.
Hudson and Manhattan R.R.	Sewage from Center St. tower goes to river.
Johnson, Cowdin, Emmerich Co. Paterson.	This place is still in hands of receiver. Not at present operating. No progress has been made with sewer connection.
McDonald Granite Co., Weasel Rd. Paterson.	Sanitary sewage goes to river.
Shupe Terminal Corp. South Kearny.	No progress shown in eliminating sanitary sewage from river.
Ulmer Park, Passaic.	Sanitary sewage pollution. This appears to have been eliminated. Tenants have been given notice to move and building will be torn down.

KI 006319
ABK001003
946010493

Pollutions from industrial plants, Continued.

Sanitary sewage only, continued.

Congoleum- Nairn Co., Kearny.	This pollution is caused by the town sewers of Kearny being blocked by sand. The pollution is listed under the name of the firm because the sewage is coming from an outlet of their interception chamber. This firm went to considerable expense and trouble to put in an interception chamber and have given no trouble until recently. This discharge of sewage is caused by the blocking of the town sewer.

Pollutions from industrial waste only.

There are at least 6 factories in Bloomfield which send polluting wastes to the rivers through the storm sewers of Bloomfield. As has been reported before, these pollutions should be referred to the town as it has been the policy to connect industrial wastes to the storm sewers. Some of these plants are a mile away from the river and it is hardly fair to list them as polluters under the circumstances.

City Stables, East Orange.	They are very careless about spilling road oil around this yard. The oil escapes down a surface drain to Second River. This has been called to their attention several times.
Miner-Edgar Alcohol Co., Newark.	Pollution from suspension of Calcium Sulphate in Sulphuric Acid not been abated. Now in hands of receiver but not operating by recent reports.
Amalgamated Dyestuff and Chemical Co., Newark.	Wastes have been segergated and polluting matter put down a deep well as temporary expedient. Samples indicate that trouble has not been eliminated, but would appear to have been reduced.
Concrete Industrial Co., formerly Fairlawn Sand Co. Fairlawn.	Only operate in Summer. This year they are going to settle sand before discharge to river.
Flintkote Co., East Rutherford.	In spite of changes made, much oil escapes to creek in time of storm. Also finely ground mica. This is because of drainage situation in this section.
Hanlon, Goodman, Co. 291 Riverside Ave. Newark.	A discharge, increasing in amount, has appeared from this plant. It consists of soapy water which has been used for washing brushes.
National Grain Yeast Co., 800 Mill St. Belleville.	Polluting discharge from yeast mash.

KLL006320

ABK001004

946010494

Pollutions from industrial waste only. Continued.

Metz Laboratories, Inc. Plum Point Lane, Newark.	The matter of disposal of this waste has been put in hands of engineer according to recent letter. The waste will be pumped to sewer in Roanoke Ave.
Maas and Waldstein, Newark.	Purification plant for this waste has never been successfully operated. Pollution still continues. It is proposed to go into this matter very thoroughly and see if we cannot help them.
New Brunswick Chem. Co. 85 Doremus Ave. Newark.	Discharge from chemical processes. An offshoot of Towers Chem Co. Expect to move this month.
Public Service Gas Co., Passaic.	Car washings only. No gas waste.
United Piece Dye Works, Lodi.	Dual piping and connections have been installed at a cost of about $35,00 $35,000. Now in operation though both wastes still go to river. It is proposed to obtain connection to trunk sewer with polluting fractions. Whether this can be done, do not know.
Waste Products Co., Newark.	Waste from washing of garbage wagons flows to ditch to river.
General Electric Co., East Orange.	Blue liquid just discovered coming from plating room. Apparently a solution of copper.
North Essex Buick Motor Co. Montclair.	Just discovered that old oil is thrown into Toney's Brook.
Prospect Laundry, 12 Prospect Street, East Orange.	Laundry waste overflows into Second River through some fault in sewer.
Murray and Sons?, Belleville-Newark line.	In spite of additional sewer connections discharges occasionally take place.

Pollutions from industrial plants, continued.

Pollutions from industrial waste and sewage combined.

Rittenhouse Mills, #1 &2.
American Piece Dye Works,
United Wool Dyeing and Finishing Co.,
Unkomaas Woolen Co.
all of Passaic.

These will all be eliminated by the new river crossing to Wallington.

Clifton Paper Mills, Clifton.	Though the sewer has been renewed under canal bridge, it appears to be partly stopped farther on. This causes spouting at manholes when this factory pumps. They have to keep shutting down pumps and waste escapes to river at times.
Fiory and Sons, River St., Paterson.	Progress is being made here and it will soon be reported as eliminated.
Masson Dyeing Co., Fairlawn.	No progress to be seen here.
National Silk Dyeing Co., East Paterson.	No progress to be seen here though it is stated that they have received permission to cross river and hook up with Paterson sewers.
Newark Contracting Co., Newark.	Sewage from two toilets and washings from trucks go to river.
Textile Dyeing Co. Fairlawn.	Contract has been signed and permits requested to hook to trunk sewer in Paterson.
United Piece Dye Works, Weidmann Annex. Paterson.	This is a Grobart property and was intended to go in connection in Prospect St., never completed because of high water in river.
United Piece Dye Works, Hawthorne.	No progress . Am informed that another river crossing is going to be made from this place to Paterson sewers.
Diamond Paper Mills. Bloomfield.	Additional purification was never installed. A new sewer going through this property is going to solve the problem here.
Granite Linen Co. Wortendyke.	No progress on additional purification has been shown. Holes were dug and nothing further.
Hohokus Bleachery.	No progress further than blueprints to be seen here.
Standard Silk Dyeing Co. Paterson.	Still pollute raceway.

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ABK001006

The foregoing list covers very completely what may be termed the steady polluters.

In their rounds the inspectors are continually coming across casual pollutions caused by overflowing sewers etc. Most of these are taken care of by informing the town officials to clean out sewers and eliminate stoppages. There is no use listing these because they happen from time to time and are eliminated as soon as discovered.

No account has been made here of pollution from boats.

Oil pollution has not been covered in this report.

The two latter are being investigated more closely and will form the subject of later reports when more concise information has been obtained.

Respectfully submitted,

RCS/RCS

Richard C. Smith.

Addenda. Sherwin Williams, Co. Newark.
This concern has taken over some old disused buildings the sewage of which will go to river until connected up.

OMISSION IN POLLUTION REPORT OF APRIL 30, 1928.

Newark.

Sewer at Commercial Street continuously discharging sanitary sewage and industrial waste.

KI 006324

ABK001008

946010498

September 8, 1937.

Passaic Valley Sewerage Commissioners,
24 Branford Place,
Newark, New Jersey.

Gentlemen:-

At last Board meeting you directed me to prepare a report listing all municipal and private dumps bordening along the Passaic River within the Passaic Valley Sewerage District.

From time to timerubbish and garbage is disposed of from houses by throwing them on the river banks. Our inspectors have frequently stopped this practice and had offenders clean up the accumulations, either by direct action or sometimes by working in cooperation with local health boards. Sometimes rubbish is dumped from factories and garages and much of this has been discouraged and cleaned up in the past. Then there are the large dumps used by the contractors who remove refuse from various municipalities.

When the rubbish dumps are a distance away from the stream we cannot do much about it, Only to warn the owners to refrain from approaching too near to the river where rubbish might be washed into the streams by rains, or rains may wash out putrefying drainage from garbage or discarded foods.

At every full moon tide, the surface of the Passaic River carries much floating rubbish derived from many points from dumps and places where small accumulations have collected from time to time. The full moon high tides reach further up the banks than usual and in this way considerable material is washed away. Also when the river is in flood and during heavy rains material from dumps is washed into the streams.

The following is a recent review of the dumping situation:-

PATERSON:

Main Garage, 79 River Street. August 13, 1937. Accumulation of rubbish and parts of old automobiles on bank of Passaic River, some falling intowater. Aggeneral cleanup was started here on this date.

American Paper Stock Co., 215 North 1st Street. August 13, 1937. Rubbish and paper spread on bank of Passaic river. Cleanup was started here on this date.

KLL006437

CLIFTON:

Passaic Valley Sewerage Commissioners-Continued:

awanna. Some oil companies and several roadstands dump their paper and rubbish on river bank. The roadstands dump paper plates and spoiled foodstuffs, with floor sweepings. Some of this material rolls down the steep bank where it maymbe washed into the stream by heavy rains and some of it rolls into the river in dry weather. Roadstands in particular have been warnes several times about this practice.

Clifton Paper Board Co., Ackerman Avenue. Paper pulp rags have been dumped for years on this property on Passaic River bank. The dump is now about six feet high from river level and extends to the water edge. Frequent inspection indicates that this material packs and lies solid and does not float away in the stream.

Passaic sewage chamber at Passaic and Clifton (Delawanna) line. Our inspector reportstthat the refuse from screens and sandcatchers has accumulated to a height of about 6 feet and the pile is now about 15 feet away from high water mark in Passaic River. It is reported that heavy rains wash material from this dump into the Passaic River.

Mrs. Kehoe, 114 River Road, Delawanna. Dwelling house. On the opposite side of the road, at the top of steep bank of Passaic River, the garbage, refuse, tin cans, paper, etc., is dumped from this house. This rubbish spreads and rolls down the steep bank and gives a very unsightly impression from across the river. At the bottom of the steep bank, however, there is a stretch of level ground extending for about 75 feet to the edge of the river. At present there is no chance of any material reaching the Passaic River. The owner has been warned several times in the past but she claims it is her property and as it is not very close to the river we have not been able to prevent it.

PASSAIC:

26 - 28 East Monroe Street. In the rear of these houses tenants dump garbage, waste paper, tin cans and refuse on the banks of the Passaic river. At the bottom of the slope this material reaches the water in the river at high tide. In the past these tenants have been warned and local Board of Health notified.

232 - 242 Fourth Street. In the rear of these houses tenants dump garbage, waste paper, tin cans, and other refuse on the high slope along the Passaic river. The bottom of the slope is about 25 feet from the water in the Passaic river but there is a possible chance of the rubbish reaching the river by being washed along by heavy rains, or by children throwing it into river. In the past tenants have been warned and local Board of Health notified.

25, 27, 29, 31 Jefferson Street. In the rear of these houses tenants deposit garbage, waste paper, tin cans, and general refuse on bank of Weasel Brook, tributary to Passaic River. Most of the

Passaic Valley Sewerage Commissioners-Continued:

Refuse comes from #25, a six family house. Heavy rains and high water in brook will wash the material into the stream. In the past the tenants have been warned and the local Board of Health notified.

63 River Drive, owner J. Riskin, 131 Van Houten Ave., Passaic. Occupied by tenants, dwelling house. Tenants deposit their garbage, papers, tin cans, and refuse on river banks in back of house. This bank slopes down to Passaic river and material may be washed into river at times. In the past the tenants have been warned and the local Board of Health notified.

97 River Drive. Empty lot. Waste paper, excelsior and general rubbish from stores founds placed in gully on high bank of Passaic river. The bottom of the sloping bank is about 25 feet from high water mark of Passaic River. Heavy rains would flow down the gully and wash this rubbish into Passaic river. Inquiry into source of this rubbish revealed that local boys take the boxes containing rubbish from in front of stores, and empty the contents on river bank on this lot, and sell the empty boxes.

GARFIELD:

At foot of Columbus Avenue. Along banks of small creek which runs into Garfield storm ditch and thence to Passaic river there is quite an accumulation of rubbish and garbage. None gets into creek direct but is in such position that it may be washed down by heavy rains. This garbage and rubbish is dumped by people from the neighborhood and our inspectors have stopped people from dumping here several times.

Viola dump, rear of Joseph Feld & Co., slaughter house. This is a large dump being used by contractor Viola for disposing of the rubbish from the City of Clifton. This dump has not yet encroached near enough to the creek which joins Saddle River to allow of anything being washed into the stream.

BLOOMFIELD:

Vicinity of James Street, Bloomfield. A small dump has been started by a few stores in this vicinity on the bank of Third River, consisting of tin cans, paper cartons, garbage, and floor sweepings. Local storekeepers werd warned some time ago and dumping seems to have ceased. Some of accumulation has been washed into the stream and heavy rains may wash more into the water.

Also on bank of Third River between James Street and Hoover Avenue. Evidence of someone throwing garbage and rubbish into stream. Attention of local storekeepers has been called to this but they all deny having committed the offense.

NEWARK:

KLL006439

Silverman's Road Stand, Lincoln Highway and Passaic River. Have thrown waste paper and cartons into Passaic river. Have been warned and appear to have ceased.

Grace Iron and Steel Corporation, South of P.R.R. bridge. Junk dealers. Possibility of oil being dumped from auto parts and other junk and possibility of oil [illegible]

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Passaic Valley Sewerage Commissioners-Continued:

Reichman and Hoffman Bros., 972 McCarter Boulevard. (Junk). Possibility of oil leaking to river from junked auto parts. These places are kept under observation.

Federal Salvage Corp., Lister Avenue. Possibility of oil draining to river at times from junked auto parts.

The large dump used by Viola for contract dumping for several years under our supervision, and from which some small amounts of refuse have gotten into Third River at Kingsland Road and River Road, Clifton, from time to time, is now filled in, covered with ashes and dirt, levelled off and packed down so that no material can easily find its way into the stream. There has just been discovered a small accumulation of new garbage on the edge of the old dump. The origin of this is suspected to be from the large tent in which a "Walkathon" outfit is operating.

A recent check-up onplaces where private small dumps had been started from houses and factories showed that after warnings had been given the accumulations had been removed or else levelled and covered properly with earth. Among these the following are listed:

Catholic Protectory, Kearny. Building refuse cleared away.

City of Newark, Asphalt Plant, Riverside Avenue. Building refuse cleared away.

Oil Station, Mount Prospect Avenue and Second River. Garbage cleared away.

Tenny's Brook, alongside Y.M.C.A. Montclair. Local residents deposited garbage. Now cleared away. Also several private houses along this brook have been constrained to remove their garbage accumulations from banks of brook.

Pittsburgh Plate Glass Co., Riverside Avenue, Newark. Building refuse material. Cleared away.

Respectfully submitted,

Ralph Van Duyne

Chief Engineer.

JRVD:AW

KLL006440

946010503

ABK001012

March 24, 1947.

The Passaic Valley Sewerage Commissioners,
24 Branford Place,
Newark, New Jersey.

Gentlemen:- Stream Contaminations during February, 1947.

Departures from normal in the quality of liquids discharged to the streams which are within the drainage area coming under the jurisdiction of the Passaic Valley Sewerage Commissioners, occur from time to time. They are caused mostly by disturbances in treatment processes, the breaking, clogging or leaking of sewers and pipelines, and the failures or breaking of pumps, filters or other mechanical purification devices. Most frequently these stream contaminations are caused by unavoidable accident, occasionally by carelessness and rarely by wilful intent. They are usually discovered promptly and the necessary remedies, repairs or adjustments quickly applied.

Such temporary contaminations of the waters of the streams during February 1947, together with the means of correction applied, are described briefly in the following list:-

February 3. Borough of Lodi, N. J.
A pollution of Stink Creek, a tributary of Saddle River, of town sewage and industrial waste first reported on December 19, 1946, is eliminated as of February 3, 1947, when new relief industrial sewer at Hatakloth Company was completed and put in service.

February 4. Raven Brothers, 1719 Grove Street, Montclair, N. J.
Film of fuel oil draining into ditch from yard surface and reaching Tony's Brook which is tributary to Second River. Our district river inspector informed the owner and a new retaining wall is to be constructed as soon as weather permits.

February 15. City of Clifton, N. J. Sanitary sewer leak.
A broken sanitary sewer located in the woods at Delevanna found to be allowing city sewage to reach Third River. Our district river inspector notified the City Engineer who started repairs promptly. Heavy snowfall stopped the repair work but sufficient had been accomplished to stop the escape of sewage to the stream. Follow-up inspections showed that no further escapes of sewage had occurred, and the matter remains under continued investigation until the repairs are completed.

February 17. United Piece Dye Works, Lodi, N. J.
River inspector discovered green dye waste discharging into Saddle River from above plant and notified the plant engineer of the occurrence. It was found that there was a

blockage in the waste collection sump and the engineer promised to have repairs made over the weekend of Feb. 22-23. The escape of waste was found to be continuing on Feb. 24 and the inspector was informed that the plant engineer could not get men to work over the week end. The violation was eliminated on February 25 when the blocked line was finally cleared.

February 20. G. Santore, Private dwelling, 157 Garibaldi Ave., Lodi, N.J. House sewage from above premises trickling into street gutter and thence into Stink Creek. Found to be caused by house sewer being blocked. Our river inspector notified the owner and he instructed a plumber to open up the blocked sewer. Bad weather delayed the work but the violation was finally eliminated in three weeks.

February 24. Clifton Paper Board Company, 1 Ackerman Ave., Clifton, N.J. Industrial waste, consisting of paper pulp, found discharging into Passaic River. This was caused by a breakdown in the main pump over the weekend and the smaller reserve pump was not able to handle the total load. Our river inspector caused them to make the necessary repairs to the large pump promptly and the violation was eliminated at 9.00 am Feb. 25.

February 25. New Nutley relief sewer at Hoffman LaRoche Co., Nutley, N.J. Some industrial chemical waste frothing out of holes in manhole cover and trickling into St. Paul's Brook, a tributary of Third River. Our inspector informed the chemical company officials and investigation showed that an air-lock in the steep sewer was building up back pressure and interfering with the free running of the sewer. The matter was promptly corrected by freeing the air pocket.

Respectfully submitted,

RCS/jbm (Signed) Richard C. Smith.

KLL026400

ABK001014

946010506

surface some being 5' x 10' or 50 sq. ft. This condition is rather unusual. When the tides changed the river became clear and the purging stopped.

May 13. Gulf Oil Company, 100 Moremus Avenue, Newark, N. J.
Heavy fuel oil escaping from oil barge "Susquehanna" # 6 while unloading at Gulf Oil dock. Our inspector notified the barge captain who informed him that the tug had squeezed the barge against the dock and sprung three rivets in the hull below the water line. When the load was pumped out the leakage ceased but left the area of river with blotches of heavy fuel oil.

May 15. Clifton Paper Board Company, 1 Ackerman Ave., Clifton, N. J.
Industrial paper waste discharging into Passaic River. Our inspector found that a valve was partly opened, which allowed this waste to escape into Passaic River. The valve was closed thus eliminating the violation.

May 16. Garfield Sanitary Sewer, Sampson Street, Garfield, N. J.
Manhole overflowing and oily black waste discharging into storm ditch which discharges into Passaic River at Van Winkle Avenue. Our inspector notified City Sewer Department and they proceeded to clear the blockage. On May 19, everything was clear.

May 19. Ultra Chemical Company, 12 Wood Street, Paterson, N. J.
A barrel of soap was dumped down the bank of Passaic River. Our inspector had the soap and barrel removed by employees of Ultra Chemical Company and none of the soap reached the river.

May 23. Lyndhurst storm sewer. D. L. & W. R. R. & River Rd., Lyndhurst.
Some oil was reaching the Passaic River with the ordinarily clean water discharge from this storm sewer, and after considerable tracing through several industrial plants the source was found at R. J. Kerwin Paint Company, Grant Avenue, Lyndhurst, a mile away from the Passaic River.
Various types of solvents, varnish, solvents and tar oils are stored in the yard and when any leaks occur, the material is washed down the yard drain and thence into the storm sewer which reaches the Passaic River a mile away.
Our inspector notified the plant superintendent and he promised to refrain from washing the yard until he installs an oil separator to protect the storm drain and the Passaic River.

RCS/jbm

Respectfully submitted,

Signed: Richard C. Smith

June 19. B. L. Lemke, 199 Main Street, Lodi, N. J.
Brown liquid chemical waste discharging from rear of this plant into Saddle River from a pipe line that serves the roof drains and floor drains from which only clear water should issue. Our inspector notified the mill superintendent and upon investigation it was found that a section of the sanitary sewer was leaking into the clear water line. Repairs were made and the violation promptly eliminated.

June 26. Hohokus Bleachery, HoHoKus, N. J.
A small leak developed in the new settling pit and trickles of dyewaste and keir liquor reached HoHoKus Brook. Our inspector notified the superintendent and the leak was repaired promptly.

June 26. Black Prince Distillery, Nutley, N. J.
Engineer cleaned out boilers and allowed oily waste and rusty water to discharge into Nichols Pond which is part of Third River system. Our inspector complained and the engineer promised that it would not happen again.

JULY, 1947.

July 1. Union Building and Contracting Company, Howe Ave., Passaic, N. J.
Heavy oil leaking from pipe in their yard drained into a storm sewer which empties into McDonald's Brook, a tributary of Passaic River. Our inspector notified the plant superintendent and they put in a new length of pipe, thus eliminating the violation.

July 7. Franklin Street Storm Sewer, Bloomfield, N. J.
This sewer discharging a brown colored liquid into Second River. Our inspector failed to trace the source of this violation as the discharge cleared up quickly.

July 7. Clifton Paper Board Company, Ackerman Ave., Clifton, N. J.
Oily industrial waste liquid discharging into Passaic River. Our inspector found that the valve that is used for emergancy by-passing was partially open. The inspector notified the plant superintendent and he had the valve closed and the violation eliminated.

July 14. Eclipse Piece Dye Works, 35 - 8th Street, Passaic, N. J.
Dye waste from this plant discharging into Passaic River through the storm sewer. This plant is a tenant of the Passaic Pioneer Properties Company. Our inspector found that the sewer system in this group of properties is in need of repairs. The owners have been notified. The tenant made some emergancy repairs which eliminated the violation temporarily.

July 7. Public Service CoOrdinated Transport Company, Bus Garage, Montclair, N. J.
Dieselfuel oil floating down Tony's Brook, tributary to

NLL026429

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September 15. Clifton Paper Board Co., 1 Ackerman Ave., Clifton. From 9.30am to 10.30am on this date, the paperboard waste discharge flowed into the Passaic River. This was caused by an electrical breakdown in the main sewer pump. The electrician made prompt repairs and the discharge was going back into the sanitary sewer within an hour.

September 23. Ultra Chemical Co., Shady St., Paterson. The sump pump which pumps the industrial waste from this plant to the sanitary sewer broke down, and the cellar filled up with soapy water. Another pump was started for the purpose of emptying the cellar and this discharge went into the street gutter and then into a storm sewer catch basin, which emptied into the Passaic River. The main sump pump was repaired and the violation eliminated the same day.

Respectfully submitted,

RCS/jbm

Signed: Richard C. Smith

KLL026438

February 23, 1948.

The Passaic Valley Sewerage Commissioners,
24 Branford Place,
Newark 2, New Jersey.

Gentlemen:- Stream Contaminations during January, 1948

Departures from normal in the quality of allowed liquids discharged to the streams which are within the drainage area under the jurisdiction of the Passaic Valley Sewerage Commissioners, and other features of potential temporary contaminations of the waters of the streams, are described briefly in the following list:-

January 5. Meadowbrook Storm Sewer, Belleville, N. J.
Discharging brown iron liquor into Second River. This was traced to Belmont Avenue in Belleville where the Belleville Sewer Department workers were engaged in clearing a blocked sanitary sewer line which normally carries the spent and neutralized iron waste liquor from the Edison Chemical Works. In the process of clearing the blockage the sewer workers had to pump out the sanitary line on to the street surface which caused some of the iron waste to enter the street catch basins and storm sewer and thence into Second River via the Meadowbrook storm sewer. The discharge occurred for about two hours.

January 12. Meadowbrook Storm Sewer, Belleville, N. J.
A green colored liquid containing small amounts of copper, chromium, nickel and iron, discharged for about half an hour into Second River. Our inspectors were unable to trace the source by raising manhole covers because the heavy layers of snow and ice covered the manholes along the lines

January 16. Clifton Paper Board Company, 1 Ackerman Ave., Clifton, N.J.
Some paperboard pulp waste and sewage discharging into Passaic River. Our inspector found the by-pass valve slightly open. The factory foreman was notified and he closed the valve tightly, thus eliminating the violation.

KLL026469

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ABK001018

SEPTEMBER 29, VIOLA'S ASH DUMP, CLIFTON.
This ash dump is located along Third River opposite the Waldrich Bleachery and on the boundary line of Nutley and Clifton. Refuse, resembling fly ash, dumped by the Manhattan Rubber Company was being pushed into Third River by a bulldozer operated by one of Viola's employees. Our inspector notified Mr Viola who stopped the operation immediatly and eliminated the violation.

TENEMENT HOUSES AND STORES, 143-145 RIVER STREET, PATERSON.
Our inspector reports garbage on river banks on the following dates in September 1-2-15-16-19-21-22-23-26-27-28-29 and 30. The garbage was cleaned up on September 7th by the owner and remained cleaned up till September 15th.

SEPTEMBER 1949, ROCHELLE PARK SEWAGE DISPOSAL PLANT.
The effluent from this plant is unsatisfactory. The plant is overloaded and the overload is increasing rapidly. Partly treated sewage is being by-passed to Saddle River.

OCTOBER 3, DUNDEE MILLS, ACKERMAN AVENUE, CLIFTON.
AIRCRAFT ENGINEERING, INC. TENANT.
An employee of Aircraft Engineering caused a pink colored wash water to be discharged into Passaic River. Our inspector notified the plant superintendent who stopped the employee from causing further offense.

OCTOBER 3, CLIFTON PAPER BOARD COMPANY, ACKERMAN AVENUE, CLIFTON.
Due to a break down in this plant, the waste was diverted to their by-pass and into Passaic River. This was necessary after the beater room had become flooded. The break down (electric) was repaired and the sewage pump put back in operation, thus eliminating the violation.

OCTOBER 6, BEWARE CITY SEWER (Sanitary), MONTIETH STREET BETWEEN SIXTH AND SEVENTH STREETS.
This sewer became blocked and caused the sewage to overflow into Meadowbrook Storm Sewer at Montieth and Eighth Streets. This overflow continued to pollute Second River until October 17th when the blockage was removed and repairs completed

OCTOBER 10, PROSPECT DAIRY FARMS, PROSPECT PARK.
Wash water from tank trucks and milk cans discharging into Passaic River along bank of river. Our inspector notified the owner and he immediatly built a collection sump which he is connecting to the sanitary sewer.

OCTOBER 20, HAMMERSLY MANUFACTURING COMPANY, GARFIELD.
Dumping of refuse on banks and into Saddle River in the rear of this plant. Our inspector notified the plant superintendent who promised to clean up this condition.

OCTOBER 23, MAYWOOD CHEMICAL COMPANY, MAYWOOD.
An escape of brown cocoa waste into Stink Creek was caused by a break down in plant operation. The break was repaired immediatly and the violation eliminated.

KLL026582

ABK001019

946010516

WEEKLY SUMMARY OF INSPECTIONS BY INSPECTORS

Week of February 27, to March 2, 1956, Inc.

Mar. 2, Special Report - Clifton Adhesive Co., 580 River Road, Clifton, N. J.

Our inspector checked the aluminum pipe, 50 ft long and 6 in. in diameter, which is attached to the rear of this building.

When inspected six months ago, it was learned that this pipe takes cooling water from a rolling mill. At the outside of the mill there is an open pit (2'x2') where inspections are made. At no time has evidence of polluting matter been observed.

During the inspection of the area our inspecto noticed a number of cardboard cartons on the river bank. The manager was notified and the bank was cleaned.

Mar. 2, Violation - Clifton Paper Board Co., 1 Ackerman Ave., Clifton.

During a routine inspection, our inspector observed a mixture of oil and water flowing from a 16 inch pipe. The flow was coming out of the flap valve and going into the Passaic River.

Mar. 2, Elimination - Clifton Paper Board Co., 1 Ackerman Ave., Clifton.

It was found that the pipe was clogged and this prevented the flow from going into the sanitar sewer. The obstruction was removed and this elimina the violation.

Mar. 2, Violation - Conditionair Corp., 630 River Road, Clifton, N. J.

Inspection of this plant showed evidence of oi dripping from the intake pipe located on the river side.

Mar. 2, Elimination - Conditionair Corp., 630 River Road, Clifton, N. J.

A recent delivery of oil via barge was made and the oil cap was not tightened. The Chief Mechan Thomas Costanstino tightened the cap, thus eliminat the violation.

DISTRICT NO. 5 - Wilbert Seals

During the daily inspections of District No. 5 from February 27, to March 2, all conditions were found to be normal.

DISTRICT NO. 6 - (Inspector for this district, Mr. Fruhinsfield retired.)

Mar. 1, Special Report - Frank's Creek, Harrison, N. J.

The creek has been blocked off north of Harrison Avenue in the Woburn property.

Work is being done on a concrete flume through the Swift and Co. property where a new plant for Van Wagenen & Schickhaus is to be built.

The creek is filling up and backing into the

KLL004048

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WEEKLY SUMMARY OF INSPECTIONS BY INSPECTORS

Week of December 17, to December 21, 1956, Inc.

DISTRICT NO. 4 - Robert Van Volkenburgh

Dec. 17, Special Report - Marcalus M'F'G Corp., Market St., E. Paterson.

Report on discharges from the outlets:

#1 - Light blue discharge.
#2 - No flow.
#3 - No flow.
#4 - No flow.

Dec. 18, Special Report - Marcalus M'F'G Corp., Market St., E. Paterson.

Report on discharges from the outlets:

#1 - Light blue discharge.
#2 - No flow.
#3 - Light gray discharge.
#4 - No flow.

Dec. 18, Violation and Elimination - Clifton Paperboard, Ackerman Ave., Clifton, N. J.

Inspection of the above plant showed a small oil slick flowing from a 14" pipe, into the Passaic River. This pipe has an attached flap valve and a wooden wedge was keeping the flap open.

Mr. Collier, the superintendent, was notified of this condition. He stated that this pipe was used to drain the rainwater from the loading area and the oil was from trucks parked there. He was unable to explain about the wooden wedge but he removed it.

The oil slick stopped when the flap was closed and the violation ceased.

Dec. 19, Special Report - Marcalus M'F'G Corp., Market St., E. Paterson.

Report on discharges from the outlets:

#1 - Green discharge.
#2 - No flow.
#3 - Very little flow, light gray discharge.
#4 - No flow.

Dec. 20, Special Report - Marcalus M'F'G Corp., Market St., E. Paterson.

Report on discharges from the outlets:

#1 - Light green discharge.
#2 - No flow.
#3 - Gray discharge.
#4 - No flow.

KLL004148

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CARMINE T. PERRAPATO
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT J. DAVENPORT
BEN W. GORDON
JOSEPH M. KEEGAN
CHARLES A. LAGOS
COMMISSIONERS

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

SEYMOUR A. LUBETKIN
CHIEF ENGINEER

CHARLES C. CARELLA
CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL
CLERK-TREASURER

September 21, 1977

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Bi-Monthly Report
July and August 1977

Gentlemen:

The following is my report which covers the months of July and August 1977, and consists of three parts:

Part I: Special Reports

#1 - Our Energy Crisis - The Problem — Page 1

#2 - Progress and Environmental Impact — Page 5

#3 - Testimony of S. A. Lubetkin at the New Jersey Clean Water Council Public Hearing On September 20, 1977 — Page 7

#4 - The Passaic River July - August 1977 — Page 10

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred — Page 19

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution ..... Page 32

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ABK001022

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Violation - Frank Stamato and Company., Route 46 West, Lodi, New Jersey

June 28 - Aug. 31, 1977 (J. McLaughlin)

On June 28, 1977, PVSC received a complaint of a pollution of Millbank Brook at Church and Massey Streets. When Inspectors McLaughlin and Perrapato checked the brook, they were able to trace the cloudy liquid to Frank Stamato and Co.

When they inspected the garage, they observed an employee washing machine parts with a strong degreaser. The liquid flowed into a floor drain which was piped to Millbank Brook. Mr. Stamato was immediately directed to cease the violation, which he did, and was asked to submit an abatement schedule to PVSC.

On July 11, Mr. Stamato furnished PVSC with a sketch showing a proposed manhole submersible pump and 2-inch force main to be connected to the existing sanitary sewer. The pump was delivered by July 11, but the backhoe, which was to be used to dig the trench, was being used for an emergency job. Construction was therefore delayed.

Violation - Whippany Paper Board Company, Inc., 1 Ackerman Avenue, Clifton, N. J.

September 8, 1976 - Aug. 31, 1977 (T. Costello)

See the PVSC's 1976 Annual Report, page 221.

The pollution involved the boiler blowdown going to the Passaic River. Mr. A. Grier had informed PVSC that the Whippany Paper Board Company intended to pipe the boiler blowdown to the sanitary sewer as a temporary measure in order to eliminate the violation, although ultimately there would be installed a system to recirculate the water back to the mill supply for reuse.

The blowdown tank was set in place in January and the necessary valves were installed. Work was halted February 7-9 because of repair work involved in another pollution (see Violation and Elimination, Whippany Paper Board Company, page 30). By February 28, the manifold was being welded to the blowdown tank.

On March 12 the lines were installed and the discharge from outlet 004 (boiler blowdown) into Dundee Canal was eliminated. This water is now recirculated for reuse in their paper making process. On March 14, Mr. Grier confirmed this in writing to Mr. Lubetkin.

Violation - Whippany Paper Board Co. (con't.)

Mr. Robert Shaw wrote to Mr. D'Ascensio on April 1 and outlined efforts to eliminate the violation from outlet 002 (filter backwash). He stated that although the engineering study had been completed, it would take about five months to get the pump based on delivery information from the vendor. The pump was ordered in early April.

It is worthy of note that the flow from the filter backwash is polluting for approximately 10 minutes starting 9:00 A.M. and 1:00 A.M. each day. The flow is estimated at 300 gallons per minute. Outside of those times, the discharge is non-polluting.

No change in July or August.

Violation - White Metal Manufacturing Company, 220 Goffle Road, Hawthorne, N. J.

August 19-31, 1977 (J. Parr)

On August 19, 1977, while making an inspection of Goffle Brook at Wagaraw Road, Inspector Parr observed that the water in the brook contained a milky white substance with a brown oil slick on the surface. He immediately took a sample and began to check the catch basins on Wagaraw Road and Goffle Road.

At a catch basin on Goffle Road, about 25 feet north of No. 8th Street, Hawthorne, he observed a heavy grey liquid flowing from an 8-inch pipe to the catch basin. The pipe came from the direction of White Metal. After taking a sample of the material entering the catch basin, he went to the plant and met with Mr. Peter Braddock, Plant Engineer, who explained that earlier in the day, a recycling tank that contained 1,000 gallons of water soluble oil purchased from Clarkson and Ford, Clifton, leaked through a broken line and ran into a sanitary sewer drain.

When Inspector Parr inspected the area with Mr. Braddock, he observed a pit beneath the tank with a drain at the bottom of the pit. Inspector Parr introduced dye into the drain and they went to the catch basin on Goffle Road where he had just observed the polluting flow. When they arrived, the flow of material had stopped, but after about 15 minutes the dye flowed from the 8-inch line into the storm sewer, confirming the illegal connection. Inspector Parr directed Mr. Braddock to disconnect the illegal connection immediately, which he agreed to do.

When Inspector Parr visited the plant on August 22, he observed that the floor drain had been stuffed with rags, and a flat steel cover, with a permatex gasket, had been bolted to the floor, effectively sealing the drain. Mr. Braddock informed Inspector Parr that their parent company, Wheeling Stamping Company, Wheeling, West Virginia, had given permission to make permanent repairs.

August 4, 1926.

To:- J. Ralph Van Duyne, Esq., Chief Engineer,

From:- R. C. Smith, Chemist,

Subject:- Firms who are lagging or delinquent in eliminating their pollution.

Dear Mr. Van Duyne:-

The following memoranda relate to manufacturing concerns who have been reported as progressing in the elimination of pollution, but who, after considering the facts, do not appear to be bringing their efforts to a logical conclusion. In view of this some action on the part of the Commission is necessary in order to stir things up. I would suggest that you write a strong letter at this time to each concern and if immediate improvement is not shown in the next two or three weeks, turn them all in for suit.

Standard Silk Dyeing Company, Paterson.

The sanitary sewage from the Mallory and Waverly Mills is collected in a sump in the above premises ofthe Standard Silk Mills and together with the sanitary waste and the industrial waste of the latter is pumped to the sewer. The idea is that by means of double plugs the heavy dye wastes are sent to the sump and the clean wash waters go directly to the river. Frequent visits to this plant show that pollution is fairly constantly taking place. Either the pumps are out of commission or more frequently the excuse is given that the men pull the wrong plugs. The pollution is too frequent to be explained by an occasional accident in pulling the plugs. It is suggested that this concern receive a very strongly worded letter.

Todd Mill, Paterson.

No progress has been shown for several months on the sewer connection for sanitary sewage.

Congdon Mill, Paterson.

KLL006312

Similar status to Todd.

Harmony, Industry and Phoenix Mills and Weidmann Annex.

These are Grobart properties. The negotiations for permission to cross Public Service properties with a sewer to connect at Prospect Street have failed. Blue prints showing proposed sewer in river bed joining trunk sewer at River and Prospect Streets have been submitted. The plans are still in the talking stage.

demanding immediate action as they have been talking and considering for nearly two years.

The three first mills are polluting from sanitary sewage while the Weidmann Annex (Weidmann is Grobart's tenant) is a heavy offender from dye wastes from silk dyeing besides sanitary sewage.

Royal Piece Dye Works.

You understand the situation here. The sewer will not take all the silk dye waste. If this concern receives notice of threatened legal action from the Commission they may be able to bring pressure on the City of Paterson to provide better sewer facilities.

Crew Piece Dye Works, East Paterson.

On account of the serious illness of Mr. Crew, Sr., who cannot be approached, the signing of the contract for the construction of the treatment plant has been held up for several months. Mr. Crew, Jr., has not authority to sign the contract. No progress is being made. Suggest a letter urging that some move be made to go ahead.

Cramer and King, Paterson.

This concern insists that Commissioner Burke and Dr. Gurley have been in conference over this matter. We cannot proceed any further until it is definitely confirmed that this is so. As the matter stands we must await instructions from your office whether these private conferences have been going on in which case we must stand aside, or if not suggest that this firm be strongly urged to show some results.

Dundee Textile Mills and Clifton Paper Mills.

Both these mills should receive notice to connect back into sewer and continue to use same thus throwing the responsibility of the pollution on the City of Clifton because of the leaky sewer. This matter has been taken up several times with the mills and with Mr. Mahoney the City Engineer. They appear to be playing a game of battledore and shuttlecock.

Joint scheme of Campbell, Morrell et al.

The three principals in this are Campbell Morrell, Dundee Land and Water Co., and Kaplan Realty Co. If this joint connection is made it will eliminate pollution from about eight industrial concerns. No progress, further than talk can be seen. Suggest letter be sent urging immediate action or suit will follow. We must get results.

Edgar-Miner Alcohol Products Corporation. Newark.

The promised changes in processes have not been brought about.

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Elliot-Granite Linen Co . Wortendyke.

No steps have been taken here and apparently nothing will be done unless strong measures are taken.

Millbank Bleachery, Lodi.

No progress other than talk to be observed here. Some strong action is necessary in order to encourage them to carry out their plans.

Weiss, Wilhelm and Co, Passaic.

This concern has taken no action on the report of their consulting engineer. They should be pressed to do something.

Masson Dyeing Co. Fairlawn.

No progress shown here. Suggest that they be turned in for suit.

Respectfully submitted,

Richard C. Smith.

RCS/RCS

Chemist

KLL006514

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ABK001027

Mr. J. Ralph Van Duyne, Chief Engineer.

March 17, 1926.

CLIFTON PAPER MILLS - Clifton, N.J.
DUNDEE TEXTILE CO. - " "

These firms are polluting the River but stated that the reason for doing so was that the Ackerman Ave. Sewer leaked badly, and that the Town Engineer, Mr. Mahoney, requested them to empty into the River.

Interviewed Mr. Mahoney and he stated that same was correct. The sewer is a cast iron pipe attached to the Ackerman Ave. Bridge over the Dundee Canal. Due to the vibration of the bridge, the caulking in the joints works loose. Mr. Mahoney stated that in a month or two, when they have low water, they will drain the canal and lay a new sewer under the bed of the canal. These firms should be listed as polluting.

J.F. Murray,
Division Engineer.

KLL006421

ABK001028

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NEW JERSEY STATE DEPARTMENT OF HEALTH
STREAM OR WASTEWATER ANALYSIS

Date Received 29
Lab. No.

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FIELD INFORMATION

Date of Collection 27 Dec JAN 1971

Hour 11:50 A.M. ✓ P.M.

Sample No. SA-06523

Composite Period _____ Interval _____

Collected by Harding

Residual Chlorine: Immediate —

Municipality Clifton

Plant Whippany Paper. Clifton Mill

Developed —

Stream Passaic River

Flow Rate 50 GPM

Location Ackerman Ave

Temperature —

Description and Remarks: 12 in steel pipe by bridge

Dilutions Requested (Bacteriological)

10	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}

LABORATORY RESULTS
BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____

Fecal Streptococci MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

*	Color (units) 20 GRAYISH		Nitrite N	*	Total Solids 392		Other Determinations
*	Odor (cold) IE		Nitrate N	*	Ash 300		
*	Turbidity (units) 20		Ammonia N	*	Total Phosphate (PO_4) 3		
*	pH 7.2		Total Nitrogen		Detergents		
	Acidity to pH 4	✓	Chloride 72		Phenols		
	Alkalinity to pH 4	*	Suspended Solids 5	*	COD neg		
		*	Ash 0		Ether Soluble		

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

Field D.O.				Chlorine Special				pH Special			
Initial D.O. (Lab.) 8 ✓				Dil. Water D.O.				Seed Corr.			
Sample Conc.	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
D.O. after Incubation											
BOD_5				< —		< —		< 4			

PART 1 -- CHEMISTRY COPY

ABK001030

946010532

NEW JERSEY STATE DEPARTMENT OF HEALTH
STREAM OR WASTEWATER ANALYSIS

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FIELD INFORMATION

Date of Collection: 24 April 1972
Hour: 7:35 AM PM
Sample No.: Cha 3 1 R 0 6
Composite Period: Interval:
Collected by: [illegible]
Residual Chlorine: Immediate / Developed
Municipality: Clifton
Plant: Whippany Paper Board
Stream: Passaic River
Flow Rate: 50 GPM
Location: Ackerman Ave
Temperature: 72.5°F
Description and Remarks:
16" CI Pipe from Bulk header. Entire area steaming from hot water.

Dilutions Requested (Bacteriological)

10	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}

LABORATORY RESULTS
BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____

Fecal Streptococci MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

X	Color (units)	10		Nitrite N	X	Total Solids	366	Other Determinations
X	Odor (cold)	IE		Nitrate N		Ash		
X	Turbidity (units)	6	X	Ammonia N	0	X Total Phosphate (PO_4)	0.46	
X	pH	7.6		Total Nitrogen		Detergents		
	Acidity to pH 4			Chloride	40	Phenols		
	Alkalinity to pH 4		X	Suspended Solids	214	X COD	47	
			X	Ash	104	Ether Soluble		
								REPORT OMITTED

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

Field D.O.		Chlorine Special					pH Special				
Initial D.O. (Lab.)	13.9	Dil. Water D.O.					Seed Corr.				
Sample Conc. %	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
D.O. after Incubation											
BOD_5						<—	<—	<9			

PART 1 -- CHEMISTRY COPY

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PAPER MILL MAY BE SOLD

by Lindy Washburn, Staff Writer

Published : March 19, 1985, Tuesday; Page A-11 (12 in.)

Section : BUSINESS

Text:

A Clifton paper mill that has lain vacant since its owner filed for bankruptcy five years ago may be sold soon to a New York-based paper recycler.

V. Ponte & Sons Inc., which also owns paper mills in Camden and Jersey City, has entered a contract with Whippany Paper Board Company Inc. to buy the mill complex at 1 Ackerman Ave.

Before the sale can be completed, however, all the necessary state and local permits must be obtained, Whippany's vice-president and controller, Michael Izmirly, said in a prepared statement. That process may take several months, state environmental officials said.

The agreement pleased William Walters, Clifton's community development director, who has sought for five years to find a use for the abandoned brick factory complex. By recycling newsprint and corrugated papers, the mill will mesh with new county requirements that newspapers be recycled, he said.

But an attorney representing another potential buyer, Clifton Paper Board Inc., expressed surprise when told about the new agreement.

"I believe we were supposed to get a commitment from a bank in New York this week" to finance the purchase, said Leonard Peduto Jr., one of three directors of Clifton Paper Board. His group has been trying to secure financing since July 1983, when the state Economic Development Authority gave preliminary approval to its plans. Peduto had not learned of the agreement before a reporter called him.

Neither side would disclose the sale price for the complex, which includes 8.58 acres on an island in the Passaic River, two vacant factory buildings, and the equipment inside. Walters said he understood it was just under $1 million.

During negotiations with Clifton Paper Board Company, Peduto said, Whippany had lowered the price from $2.5 million to $1.75 million to $1.4 million, but Clifton Paper Board had not been able to come up with the money.

The anticipated new owners will finance the purchase privately, Whippany's vice-president said.

The Ponte firm "has been in the recycling business since before it was called that," said Vincent Ponte, assistant secretary at V. Ponte & Sons. "We were founded in New York in 1919 by my grandfather." The company has headquarters on Canal Street in Manhattan.

When Whippany was in business, Ponte & Sons was one of their major suppliers of secondary fibers, or the raw material for making boxes, Ponte said. The company listed waste-paper sales of $1 million to $5 million in the 1983 New Jersey State Industrial Directory.

Once the plant becomes fully operational, it will require about 150 employees to run both machines, Izmirly said. But several things must happen before it starts producing boxes:

* First, for the sale to be completed, Whippany Paper Board must obtain a certificate of

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occupancy from Clifton's Building Department, a discharge permit from the Passaic Valley Sewerage Authority, an air-pollution control permit from the Department of Environmental Protection, and another permit required under the Environmental Cleanup and Responsibility Act.

* Both the buildings and the equipment must be repaired. An application filed two years ago with the state described both mill buildings as structurally sound, but in need of repairs to the roof and steam boiler and a new turbine. The equipment, which has not been used in five years, must be dismantled and overhauled, Izmirly said.

Article # : 825132

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RECYCLING REOPENS CLIFTON MILL -- BRADLEY TOURS REFURBISHED PAPER PLANT

by Jeffrey Page, Record Staff Writer

Published : July 24, 1990, Tuesday; Page B-3 (ill.) (13 in.)

Section : NEWS

Text:

Once, the dun-colored soup swirling in a huge vat at the newly opened Recycled Paperboard Co. mill in Clifton had been newspapers, magazines, office paper, and campaign material. Soon it would be thin sheets of cardboard and would be put to prosaic use.

But first, as this mushy mass rotated, certain trash, such as plastic bottles and metal baling wire, were removed. Then, a forklift operator dumped another three bales of paper into the vat.

There was a splash and spots of the liquefied paper wound up on the blue oxford shirt of U.S. Sen. Bill Bradley and the beige blouse of Mary Sheil, solid-waste director at the state Department of Environmental Protection. Both shrugged and continued touring the mill, whose air was still and stifling.

Monday's tour marked the mill's official reopening on the western bank of the Passaic River. The geography was not lost on Bradley.

"There's a symbolism here," Bradley, one of several hundred lunch guests. "The opening of this plant happens at a time when we can say we're saving this river and when we can say we're making a cleaner world for the benefit of our children's children."

Others at the ceremony included mayors James Anzaldi of Clifton and Joseph Lipari of Passaic and Passaic Freeholder Charles Delahanty.

Recycled Paperboard is operated by members of the Ponte family, who own V. Ponte & Sons Inc., a carting and recycling firm based in New York. Their paper-recycling venture began with the aid of a $10 million loan from the state Economic Development Authority and a $700,000 Urban Development Action Grant from the U.S. Department of Housing and Urban Development. It is housed in the old Whippany Paper Board Co. mill. Whippany went bankrupt in 1980.

The rebuilt mill opened recently with 100 workers processing 400 tons of mixed paper refuse a day. Officials said the workforce and the daily load could double soon through the refurbishing of a now-dormant part of the mill.

The extent of New Jersey's recycling makes it a national leader, said Marie Kruzan, the executive director of the Association of New Jersey Recyclers, a 350-member advocacy organization.

The nation collects 26 million tons of paper a year for recycling; New Jersey's 600,000 tons represents almost 2 1/2 percent, Bradley said.

"Between voluntary, and now mandatory, recycling, the state has an attractive record for 10 years," Kruzan said.

"You can see there's room for more mills like this," she said, noting that in northern New Jersey, there are only two other major recycling operations: Marcal Paper Products in Elmwood Park, which makes tissues, napkins, toilet paper, and paper towels; and Garden State Paper Products in Garfield, which manufactures recycled newsprint. The Garden State plant is up for sale by its owner, Media General of Richmond, Va.

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State plant is up for sale by its owner, Media General of Richmond, Va.

Like the others, Recycled Paperboard's product lines will be put to everyday use, officials said. Its customers will turn the recycled material into pizza boxes, shoe boxes, shirt boards, toilet-paper cores, and game boards.

Article # : 2814157

Captions : PHOTO - DANIELLE P. RICHARDS / THE RECORD - Touring Clifton's new recycling plant Monday are Angelo Ponte, left, whose family runs the mill; Sen. Bill Bradley, and Mary Sheil, solid-waste director at the state Department of Environmental Protection.

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Editions : Three Star Passaic

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946010541

WHIPPANY PAPER BOARD CO., INC.
10 NORTH JEFFERSON ROAD - WHIPPANY, NEW JERSEY
N. Y. PHONE: REctor 2-0500 N. J. PHONE: TUcker 7-3300
PHILA. PHONE: WAlnut 2-7715

700-351

September 30, 1976

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Attn: Frank P. D'Ascensio

Subject: Whippany Paper Board Company - Clifton Mill

Dear Sir:

Your letter of September 24, 1976 addressed to our Mr. Elliott Collier has been referred to me for comment and or appropriate action. It is our intention to eliminate discharges 002 and 004 at the subject mill. We will accomplish this by repiping these discharges within our mill so that they can be discharged into your collection system.

This involves considerable piping and the purchase of some additional equipment namely pumps and a blow down tank.

In accordance with EPA's discharge permit covering the subject mill, this work will be completed prior to June of 1977. It, however, is our intention to complete this work sooner than the above date and we will keep you advised regarding our progress.

Sincerely,

Robert K. Shaw

ROBERT K. SHAW
Assistant to the President

RKS/sr

C.C. SA Lubetkin
AS Goldberg
J Kinder
F Cupo
L. Cuccinello
Inspector

ABK001069

946010542

Herald-News
Local News
Clifton-Passaic Edition
Classified C3-6
Obituaries C-9
Friday, June 11, 1982 • Section C
FINAL PASSAIC CO.

Plan revealed for Whippany plant

By JACK K. ROGERS
Herald-News Staff Writer

CLIFTON — This week's $29 million sale of the Whippany Paper Board Co. could result in a revival of the company's Clifton plant before the end of this year, developer Harry Grant said Thursday.

But Grant, the Englewood Cliffs entreprenuor who will acquire almost 400 acres in Morris County when his purchase of the paper board company is finalized, said that finding a company to take over 8 acres of Whippany holdings in Clifton is not his top priority.

"But it will be done within the next few months," he said. "When Harry Grant moves, he moves fast."

The first order of business for Grant is to complete a deal that will sell Whippany's large Morris County plants to a company that will reopen the mills which have been idle for about two years.

THE DEVELOPER said he is very close to completing a deal with a "large United States concern" for the plants, but he would not divulge the identity of the company. Grant said the interested party is not a paper company.

The Israeli native, who emigrated to the United States five years ago and now owns several shopping centers, is also planning to build a shopping center on 39 acres of the Whippany property on Route 10 and a hotel on 20 acres at the intersection of Route 10 and Interstate 287.

Whippany's Clifton mill is located on Ackerman Avenue next to the Passaic River. It includes two machines for making cardboard "pizza boxes" and roof shingles, and several small office buildings. The company also owns a vacant tract along the Dundee Canal.

Grant said he has "no plans" right now for the Clifton property, but he indicated that he would rather revive the plant instead of tearing it down.

"I don't know if I'll run the factory or lease or rent it," he said. "I have to check what can be done with the property."

WILLIAM R. WALTERS, the city's community development director, has been trying to locate a buyer for the Clifton mill for several months. Walters said he would establish a "special hotline" to assist Grant in locating businesses that might be interested in leasing the site.

"That would mean 100 jobs right away," Walters said.

The community development director noted that the machines at the Ackerman Avenue plant are "highly specialized" and in good condition.

The Whippany Paper Board Co. filed for reorganization under Chapter 11 of the federal bankruptcy laws in February 1980 but continued to operate until June of that year, when a shortage of cash forced a shutdown.

The Clifton plant, which once employed 150 workers from the city and neighboring communities, was partially gutted by a fire in April 1980 and never reopened. The shutdown took city officials by surprise, since they had expected the company to complete repairs and file for a permit to move back into the Ackerman Avenue facilities.

WHIPPANY EXECUTIVES blamed market conditions and increased energy costs for the 48-year-old firm's shutdown, but early in 1981 six men were indicted by a federal grand jury for defrauding the paper board company of $1.3 million by selling it goods that only existed on paper.

The defendents, who owned three New York businesses that supplied waste paper to Whippany for recycling into paper products, pleaded guilty to the charges last July. Law enforcement authorities also charged a scaleman at the paper board plant with conspiring to falsify shipment records.

The fire at the Clifton plant two years ago reportedly began when a large ream of paper heading into a two-story dryer suddenly snapped.

Firefighters quickly contained the blaze but encountered difficulty in extinguishing it because the few catwalks inside the dryer were covered with falling debris. The fire was doused instead by water that was ricocheted off the building's roof.

The Clifton plant was the firm's first, purchased in 1938 by Frank Desiderio, who developed the company from a one-truck scrap paper business during the '30s and '40s.

Lucianin designated as grant fund trustee

By GARY STIX
Herald-News Staff Writer

PASSAIC — After a close inspection of federal regulations, city council president Joseph Lipari learned that the council could shift control over $1.9 million in federal grant money out of the hands of his adversary, Mayor Robert Hare.

So Lipari Thursday night decided to exercise this option, and the person he chose to become trustee for the grant funds is the mayor's closest aide, city business administrator Kenneth Lucianin.

Lucianin, Lipari said, was better suited than the mayor to take charge of the funds, given the fact

Crackdown on youth is apparent success

By JOHN A. MURA
Herald-News Staff Writer

PASSAIC — A promised crackdown by police and store officials against graffiti, noise and harassment in the Shop Rite parking lot on Paulison Avenue has apparently succeeded.

Residents who live near the supermarket complex say they are pleased with the police patrols which have reduced the number of youths who drink and loiter in the parking lot and with store officials who have changed the hours for deliver- night.

and spokesman for the United Passaic Organization.

"We appreciate what's been done so far but we don't want to say it's all been done and let's go home."

RESIDENTS first expressed their anger and fear at a May 17 meeting of the UPO at St. Anthony's Church, 95 Myrtle Ave. Police and store officials, invited to the meeting, promised quick relief.

the church, residents said they had already noticed a difference.

ABK001075

946010544

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

50 Passaic Avenue, Fairfield, NJ 07006 • (201) 882-8377

• Drum Disposal • Asbestos Removal • ECRA Consultants • Site Evaluation • Hazardous Waste Management • Engineering & Consultation

December 12, 1985

State of New Jersey
Department of Environmental Protection
Division of Waste Management
Hazardous Site Mitigation Administration
Cn 028, Trenton, NJ 08625

Attention: Mr. Richard Katz

Re: ECRA Case 085-193
Whippany Paper Board Company
One Ackerman Avenue
Clifton, New Jersey

Dear Sir:

We have completed the test borings, soil sampling and chemical analyses for the four tank excavation areas located at the Whippany Paper Board Company (WPBC) in Clifton, New Jersey.

The sampling plan dated July 30, 1985, was reviewed and approved (as noted) by the DEP, Division of Waste Management as indicated in a letter to Mr. Izmirly of the WPBC dated November 12, 1985 (Page 32).

In this report, we present our findings and identify the vertical and horizontal extent of soil contamination of each tank excavation and we present a clean-up plan for the areas of contamination.

Sampling Plant

On November 18, 1985, our crew began sampling procedures, by means of test borings. Four (4) previously excavated areas, identified as one (1) through four (4) on the site plan (Page 13), were the principal areas of concern for the sampling program. A total of twenty-seven (27) boring locations were staked out, one boring along each accessible side of the tank excavation and at five (5) foot distances from the edge of the excavation. Additional borings were located in each excavation at ten (10) feet intervals (see attached boring location plan Page 14-17). Two of the twenty-seven (27) borings were abandoned due to auger refusal.

Drilling was conducted on November 18, 19, 20, 21, 22, 25, 26 and December 2, 1988. Soil samples were obtained from six (6) inch zones and at two (2) foot depth intervals. Procedures included advancing the hole for two (2) foot intervals and sampling with a standard split spoon and repeating the procedure to the completion of the boring. The depth of the hole was determined in the field and was terminated when ground water was encountered or upon refusal. Each sample was collected in a clean 8 ounce jar, clearly labeled and properly sealed. The augers, split spoon sampler and tools were scrubbed with detergent, rinsed with fresh water and rinsed again with distilled water between sampling. A copy of the boring logs is attached (Page 5).

One sample from each boring location was chosen for laboratory testing. The samples for testing were selected based on smell and visual examination. Generally, those samples collected from the zone between six (6) to ten (10) feet below the surface exhibited the most significant signs of contamination and were, therefore, selected as the sample to be tested. The samples and a chain of custody record were delivered to ICM, Inc. and tested for petroleum hydrocarbons (PHC) method 418.1 (Page 27).

A summary of the PHC test results is listed on Page 4. Generally, all four (4) excavations were found to contain some soil with concentrations of hydrocarbons greater than one hundred (100) mg/kg. Excavation #1 was found to contain the highest levels of contamination while the remaining excavation generally contained localized deposits. The sketches on Pages 13-15 illustrate the estimated regions of contaminations greater than one hundred (100) mg/kg.

Clean-up Plan

It has been determined by the sampling plan that Petroleum Hydrocarbon Contamination as a result of leaking storage tanks has occured on-site.

The attached boring location plans (Page 14-17) illustrate the estimated horizontal extent of contamination. The vertical extent is considered to be to a depth of approximately ten (10) feet below the surface.

The soil will be excavated and hauled by Fairfield Maintenance Co. and will include the removal of soil as defined by the shaded region as indicated on the location plans. The area within the shaded region is considered to be contaminated by greater than one hundred (100) mg/kg of petroleum hydrocarbons as indicated by the laboratory results.

The soil will be excavated by a case 580 backhoe and loaded onto tandem dump trucks and hauled to the landfill. Approval for disposal of the soil is being sought at the Bailing Facility, North Arlington, New Jersey.

After excavation of the contaminated soils we will resample four (4) points within each excavation, at one point along each side, at a depth of approximately six (6) inches and test the soil for petroleum hydrocarbon contamination. If the results indicated that the remaining soil contains less than one hundred (100) mg/kg of petroleum

hydrocarbons the excavations will be backfilled. If the remaining soil is tested and found to contain greater than one hundred (100) mg/kg of petroleum hydrocarbons then additional excavations will be performed until satisfactory results (<100 mg/kg) are obtained. A similar procedure is to be followed for the surface contaminated areas identified under "deficiencies" listed on the report prepared by the State Inspector, Robert Dante (Page 30).

The entire clean-up program will be supervised and the events will be recorded by a member of our staff. In addition, an organic vapor analyzer will be available at all times for health and safety and to assist in determining the final extent of contamination.

Upon completion of the clean-up program we will submit a complete report including the additional testing and the dump slips.

Based on the calculated quantities of soil to be removed as determined by the borings we anticipate the cost of the clean-up plan to be as listed below.

Estimated Cost for Clean-up

1.	Mobilization of men and equipment	$ 400.00
2.	Equipment for excavation and disposal of petroleum hydrocarbon contaminated soil at HMDC fill (6 days @ $2500.00/day to remove an estimated 650 cu.yds.)	$15,000.00
3.	Truck tariffs (44 trucks @ $325.00/truck)	$14,300.00
4.	Onsite engineering and supervision of excavation, preparation of logs, samples, final report ($35.00/hr for estimated fifty (50) hours)	$ 1,750.00
5.	Professional engineering services for report preparation, supervision, telephone conversation, consultation ($50.00/hr for estimated forty (40) hours)	$ 2,000.00
6.	Laboratory testing for dump approval and resampling for petroleum hydrocarbons to include (EP Toxicity, reactivity, corrosivity, ignitability - 5 samples; PHC - 21 samples)	$ 4,875.00
7.	Two (2) priority pollutant analysis as requested by DEP under drum storage area	$ 3,000.00
	Estimated Total:	$41,325.00

NOTE: The above cost does not include soil replacement or restoration of site to be completed by owner.

If you should have any questions, please do not hesitate to call.

Sincerely,

HAZARDOUS WASTE ENGINEERING CONSULTANTS, INC.

Frederick A. Porcello, P.E.

ABK000472

946010548

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS SITE MITIGATION ADMINISTRATION
CN 028, Trenton, N.J. 08625

MARIAN W. SADAT, P.E.
DIRECTOR

JORGE H. BERKOWITZ, Ph.D.
ADMINISTRATOR

07 MAR 1986

Michael P. Izmirly
Whippany Paper Board Co., Inc.
1 Ackerman Ave.
Clifton, NJ 07011

Re: Whippany Paper Board Co., Inc.
1 Ackerman Ave., Clifton, Passaic County
ECRA Case #85193
Sampling Plan Dated: February 4, 1986

Dear Mr. Izmirly:

Pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) by the Environmental Cleanup Responsibility Act (ECRA, N.J.S.A. 13:1K-6 et seq.) and delegated to the Chief of the Bureau of Industrial Site Evaluation pursuant to N.J.S.A. 13:1B-4, the referenced Sampling Plan is hereby approved as conditioned herein:

1. Whippany Paper Board Co. must accomplish this investigation and any further analytical investigations by the methods outlined in this sampling plan. If any change in methods outlined in this sampling plan is necessary or if any delays are encountered, Whippany Paper Board Co. must inform BISE in writing prior to implementation.

2. Whippany Paper Board Co. must submit summarized analytical results in tabular form. Whippany Paper Board Co. must also submit with the analytical data all documents associated with the sampling and testing, including but not limited to lab sheets, chain of custody, results of blank analyses, lab chronicles, summary of analytical instrument tuning, and analytical methods used.

3. Whippany Paper Board Co. must submit the results in triplicate within ninety (90) days of receipt of this approval.

4. Whippany Paper Board Co. must notify NJDEP at least five (5) business days prior to implementation of sampling.

5. If contamination is determined to exist above a level found acceptable by NJDEP, Whippany Paper Board Co. must prepare and submit a Cleanup Plan developed pursuant to N.J.A.C. 7:1-3.12 to address said contamination. If the data from implementation of the approved Sampling Plan indicates the presence of contamination, but is not sufficient to define the full horizontal and vertical extent, then such areal definition must be proposed as a Sampling Plan Addendum in a form which meets the criteria of N.J.A.C. 7:1-3.7(d)14. The horizontal and vertical extent of contamination must be determined before an approvable Cleanup Plan can be developed.

New Jersey Is An Equal Opportunity Employer

6. Monitoring wells must be installed at Tank 2, and Tank 3, in addition to the three (3) proposed monitoring wells. Monitoring wells must be installed at the above ground 160,000 gallon fuel oil and at the drum storage area if soil sampling and analysis identifies contamination at these locations. If this phased approach is unacceptable to Whippany Paper Board Company, it is suggested that these two monitoring wells be installed simultaneously with soil sampling. The location for each well is to be field determined in consultation with a N.J. Geological Survey staff geologist. Based on the results of the ground water investigation additional wells and parameters may be necessary to define the horizontal and vertical extent of contamination.

7. Sample and analyze the ground water from each monitoring well for volatile organic's (VO), xylene isomers, (EPA Method 624) plus 15; base neutrals plus 15; acid extractables (EPA Method 625); and, petroleum hydrocarbons (EPA Method 418.1). As part of this package, copies of the fully marked chromatograms (including surrogate and interval standards) for the sample and blank runs must be submitted. An analysis of the mineral spirits and hydraulic oils used on site must be provided so that additional parameters can be added to the required ground water analysis. At each source area, where free product is encountered, sample the free product to determine the specific gravity of the product so that corrections to the measured water levels can be made. After the monitoring wells are purged 3 to 5 times the standing water volume, the water sample must be collected no deeper than 3 feet below the water level with a bailer.

8. Whippany Paper Board must install in each monitoring well 15 feet of screen with the screened interval from 5 feet above to 10 feet below the water table (Attachment). If wells are to be completed at or below grade, all monitoring well caps must be fitted with an expanding plug and must not be vented to the atmosphere so as to prohibit surface water from entering the well.

9. Top of casings, ground elevations, static water levels, product levels, and product thickness must be submitted in tabular form for all the monitoring wells.

10. Whippany Paper Board must construct ground water elevation contour maps. Any corrections made to the static water levels, because of the presence of free product must be reported.

11. Stained soils at the 160,000 gallon fuel oil tank and at the drum storage area must be sampled and analyzed to determine the need for monitoring wells at these locations as mentioned in item 6 above.

12. When PHC results are submitted, method procedures must be specified. The NJDEP modification of EPA Method 418.1 includes Soxhlet extraction of a 30-50g sample with Freon 113 at 20 cycles per hour for 4 hours.

13. Whippany Paper Boards proposal is to omit testing in the drum storage area until the cleanup phase. This is not acceptable because results of these tests may add additional target parameters to the ground water study and may change the scope of the soil cleanup. Samples for VO in this area must be taken from the 18-24" interval.

14. Whippany Paper Board must submit further rational for not determining the full horizontal extent of soil contamination. If physical barriers (Rivers, canal, building, etc.) prevent the determining of the full horizontal extent of the soil contamination these areas must be shown on a site map.

15. Whippany Paper Board must submit documentation to prove that the transformers on-site contain no PCB contaminated oil. If documentation can not be provided, soil samples must be taken around the transformer from 0-6" and analyzed for PCB's.

If you have any questions, please contact Robert Dante, Case Manager at (609) 633-7141.

Sincerely,

Anthony J. McMahon, Chief
Bureau of Industrial Site Evaluation

HS73:dr
cc. Brian Sogorka, BEERA
Ted Hayes, NJGS

946010553

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LookSmart

Eden Wood Realty donates land for Patriots Path growth - Brief Article

Eden Wood Realty Company, developer of the 750,000-square-foot River Park Business Campus, has donated 22 acres to Hanover Township, New Jersey, to continuously link the historic Patriot's Path from Hanover Township to Morristown. The donated land and an easement will give area residents public access to a portion of the 88-acre property located off of Eden Lane which features natural wooded areas, a lake and the Whippany River.

Patriot's Path is a gradually developing network that includes more than 40 miles of hiking, biking and equestrian trials and green open spaces linking dozens of federal, state, county and municipal parks, watershed lands, historic sites and other areas of interest. Patriot's Path was conceived more than 30 years ago as a greenway project to help protect the Whippany River. The concept of the path has grown over the years to become a countrywide amenity. "By granting an easement negotiated through the township for this vital tract of land, Eden Wood Realty has made a unique commitment to preserving the important Whippany River corridor. The company has already established itself as a good neighbor and a responsible member of the community," said Mayor Ron Francioli of Hanover Township. "The Patriot's Path has historical significance and by preserving the public open spaces, residents will be allowed to enjoy the many scenic sights right in our own backyard."

"This property within the River Park Business Campus is very important because it is at the crossroads of two branches of the path system," added Albert Kent, Patriot's Path coordinator for the Morris County Park Commission. "River Park Business Campus has allowed us to connect the western part of Patriot's Path leading from Morristown, to the eastern section running along the Whippany River, and a more northern one leading to Bee Meadow Park and Old Troy County Park. Ultimately, there will be more than 80 miles of continuous path within the trail system."

Currently, the path runs in part along the corridors of the Whippany and Black Rivers, and the south branch of the Raritan River. The land parcel at River Park Business Campus will serve to connect the Patriot's Path recreational trail and greenway extending across Morris County, from East Hanover to Mount Olive, to Essex County's Lenape Trail in Roseland and the State Park Service's Sussex Branch Trail in Sussex County. Trail surfaces vary from paved surfaces or crushed stone and gravel, to bare earth or woodland paths. Several sections follow the railbeds of abandoned railroads. The parcel lies across Eden Lane from Central Park and will add to Hanover Township's inventory of green open space and wildlife habitat.

"Eden Wood Realty supports Hanover Township and the Morris County Park Commission's goal of preserving the remaining natural woodlands along the Whippany River," said Amy Neu, vice president. "We welcome our township neighbors and invite them to enjoy leisurely outings at our scenic Patriot's Path location."

Eden Wood Realty Company is a subsidiary of Neu Holdings Corporation, a privately-owned company founded more than 50 years ago. Eden Wood Realty Company, which is headquartered in Whippany, New Jersey, has developed and owns more than 3 million square feet of office and industrial space in New Jersey, Pennsylvania and California.

The land deeded to the town by River Park Business Campus marks a formal, permanent agreement between Eden Wood Realty Company, Hanover Township and the

Morris County Parks Commission. It designates a specific land tract for the path, which was named for its historical s significance by, noted historian John T. Cunningham. Nearby landmarks include the pre-Revolutionary Hanover Historic cemetery; the Frelinghuysen Arboretum in Morris Township; the 1796 Tuttle House on Route 10 in Hanover Township; the Ford Mansion in Morristown where George Washington was headquartered during the winters of 1777 and 1779-1780; Speedwell Village, a restored farm where Samuel F. B. Morse perfected the telegraph; and the Speedwell Iron Works where parts of the first trans-Atlantic steamship were cast.

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-SEAMLESS-

Southeast Morris League for Strategic Solutions

Neighbors fear loss of woods to planned warehouse

12/10/00

BY JEAN MANSUR
STAFF WRITER

Linda MacIntyre enjoys looking out her living room windows to watch the changing seasons in a wooded area near her condominium on Parsippany Road in Hanover.

Linda Gallo moved to another condominium in the same Sunrise at Hanover development a year ago to get away from the congestion and pollution in Montclair, Essex County.

Now, MacIntyre, Gallo and other residents are concerned the wooded four-acre parcel, which is part of a 46-acre tract, will be cut back to make way for a driveway as part of a proposed 260,000-square-foot Tiffany & Co. warehouse. The former Whippany Paper Board site was rezoned last month from residential to industrial.

An amendment to the rezoning measure would reduce the buffer from 150 feet to 75 feet along the property line on part of the site. While residents are concerned, township officials say the amendment does not apply to the wooded area next to the condominiums, between Sunrise and Kitchel Place.

Whatever the case, several residents want a reconsideration of the entire matter including the rezoning, which the township committee approved by a 4-1 vote Nov. 20. A public hearing on the amendment to reduce the buffer is scheduled for Dec. 28.

"If we have our windows open, we will be watching 18-wheelers go in and out all day," said Gallo. "I don't think it's fair they took a residential section and changed it to industrial."

The change in the buffer from 150 feet to 75 feet applies to the boundary between the 46-acre Eden Wood property and a 60-acre adjoining

tract, which is zoned residential and currently undeveloped, Mayor Ron Francioli said.

The buffer change was requested by Tiffany's representatives because they could not fit the building on the site without it, the mayor said.

The 75-foot buffer, wetlands and Stony Brook will provide a good barrier between the two properties, Francioli said. The amendment will not affect the land between Sunrise and Kitchel Place, where residents still will have a 150-foot buffer of dense trees and landscaping, he said.

"We feel this is a very equitable compromise for our town, the neighbors and the environment," said Francioli. "It's a less intensive usage than other types of uses that could be allowed."

The warehouse will be hundreds of feet back from the development, he said.

However, township resident Diane Kafel, who opposes the rezoning, said, "the best ratable is undeveloped land. The best thing to do with it is leave it alone, since there is very little open space left in town."

She and other residents want open space, not the increased traffic and "degradation of their quality of life. It isn't just the people who live next door to it. Residents on other parts of the township don't want precious open space developed."

If the warehouse has to be built, Gallo and her neighbors would like to see the developer provide truck access from Route 10, not Parsippany Road.

However, the township has been told that because a jughandle turn on Route 10 cannot be safely reconfigured, trucks can enter but not leave the site from the highway.

Access in and out of the site also is proposed from Parsippany Road, near Sunrise, said Committeeman Robert Steiger.

"We're not trying to throw something at them that will be unsightly. I think they will be a good neighbor," Steiger said of Tiffany & Co.

He explained that the owner of the property, Eden Wood Realty, cleaned up the site and capped a landfill there two years ago. The land had been zoned residential in 1946 but had been used by the paper mill as a landfill.

Although the site has been cleaned, Steiger said it is not suitable for residential uses under state Department of Environmental Protection guidelines. The township committee believed it would be sued if it had not approved the rezoning from residential to industrial, he said.

Committeeman Leonardo Fariello voted against the rezoning in November when residents turned out to oppose it. He also does not favor the reduction in the buffer between the two undeveloped properties.

"I think if anything gets reduced it should be the size of the building not the buffer zone," said Fariello, who had been pressing for 250-foot buffers in the new industrial zone.

The public will have another opportunity to comment on the site plan when it goes before the township planning board, the mayor said.

"The project is now in the planning and development stages. Based on the progress of rezoning, we will proceed with the approval process, making sure that we conform to all township requirements," said Amy Neu, vice president of Eden Wood Realty.

"We look forward to bringing this now unproductive parcel to productive use, ultimately benefiting the township by providing new ratables, a beautiful business park and a prestigious corporate neighbor," Neu said.

Jean Mansur is a reporter in the Morris Bureau. She can be reached at jmansur@starledger.com or (973) 539-7910.

This page was last updated on 28 Sep 2002

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Form C-102A
Rev. 7/82

FILED

JUL 19 1988

JANE BURGIO
Secretary of State

CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF INCORPORATION OF

WHIPPANY PAPER BOARD CO., INC.

(For Use by Domestic Corporations Only)

To: The Secretary of State
State of New Jersey

"FEDERAL EMPLOYER IDENTIFICATION NO."
22 - 1380200

Pursuant to the provisions of Section 14A:9-2(4) and Section 14A:9-4(3), Corporations, General, of the New Jersey Statutes, the undersigned corporation executes the following Certificate of Amendment to its Certificate of Incorporation:

1. The name of the corporation is Whippany Paper Board Co., Inc.

2. The following amendment to the Certificate of Incorporation was approved by the directors and thereafter duly adopted by the shareholders of the corporation on the 5th day of July, 19 88:

Resolved, that Article First of the Certificate of Incorporation be amended to read as follows: The name of the corporation is EDEN WOOD CORPORATION.

3. The number of shares outstanding at the time of the adoption of the amendment was 1000. The total number of shares entitled to vote thereon was 1000.

If the shares of any class or series are entitled to vote thereon as a class, set forth below the designation and number of outstanding shares entitled to vote thereon of each such class or series. (Omit if not applicable.)

4. The number of shares voting for and against such amendment is as follows: (If the shares of any class or series are entitled to vote as a class, set forth the number of shares of each such class and series voting for and against the amendment, respectively.)

Number of Shares Voting For Amendment	Number of Shares Voting Against Amendment
1000	0

(If the amendment is accompanied by a reduction of stated capital, the following clause may be inserted in the Certificate of Amendment, in lieu of filing a Certificate of Reduction under Section 14A:7-19, Corporations, General, of the New Jersey Statutes. Omit this clause if not applicable.)

5. The stated capital of the corporation is reduced in the following amount: N/A. The manner in which the reduction is effected is as follows:

The amount of stated capital of the corporation after giving effect to the reduction is $ N/A. (Must be set forth in dollars.)

946010565

ABK000396

6. If the amendment provides for an exchange, reclassification or cancellation of issued shares, set forth a statement of the manner in which the same shall be effected. (Omit if not applicable.)

N/A

(Use the following only if an effective date, not later than 30 days subsequent to the date of filing is desired.)

7. The effective date of this Amendment to the Certificate of Incorporation shall be N/A.

Dated this 13th day of July, 19 88.

WHIPPANY PAPER BOARD CO., INC.
(Corporate Name)

By _____*
(Signature)

John L. Neu, President
(Type or Print Name and Title)

(*May be executed by the chairman of the board, or the president, or a vice-president of the corporation.)

Return to Secretary of State, CN 300, Trenton, N. J. 08625. Attn: Corporation Filing.

Filing Fee $50.00

NOTE: No recording fees will be assessed.

CERTIFICATE OF AMENDMENT TO CERTIFICATE OF INCORPORATION OF WHIPPANY PAPER BOARD CO., INC.
(Domestic Corporations Only)

FILED BY:

RECEIVED AND FILED:

Recorder's Initials

TRANSACTION NO.: _____

ORDER NO.: _____

946010566

I, The Secretary of State of the State of New Jersey, DO HEREBY CERTIFY that the foregoing is a true copy of CERTIFICATE OF AMENDMENT and the endorsements thereon, as the same is taken from and compared with the originil filed in my office on the 19th day of July, A.D. 1988 and now remaining on file and of record therein.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal at Trenton, this 19th day of July, A.D. 1988

SECRETARY OF STATE

James Bazzio

946010567

PETROLEUM FUNDS, INC.

P. O. Box 1380 • 309 N. Market Street • Paris, Tennessee • Phone (901) 642-1208

CASE NUMBER PF-222-2215 9
RK 222-4470

VERIFICATION FORM

Applicant's name WIPPANY PAPER BOARD CO. INC
C/O Eden wood corp.

Applicant's current address

110 S. JEFFERSON Rd
WHIPPANY NJ 07981

Telephone No 201-428-0065

SSN or FID No. 22-1380200

Has there been any change in the status of the applicant such as divorce, death, change in ownership, bankruptcy, reorganization, or dissolution?

X Yes No change name

I verify that my firm contacted the applicant and that the applicant advised us on 6/8/97 (date) by (telephone, letter) that all the information listed above is true and correct.

We request that supplemental checks be mailed to Petroleum Funds Inc. P.O. Box 1380, Paris TN. 38242.

Signature

Date

President
Title

901-642-1208
Telephone Number

946010568

ABK000399

Department of Energy
Washington, DC 20585

JUL 18 1997

Whipany Paper Board Company, Inc.
c/o Edenwood Corporation
Controller
110 S. Jefferson Road
Whipany, NJ 07981

Re: Case No. RK272-04470
Whipany Paper Board Company

Dear Controller:

This letter regards the Application for Supplemental Crude Oil Refund recently filed on behalf of Whipany Paper Board Company, Case No. RK272-04470. The Application was filed with the assistance of Petroleum Funds, a private filing service located in Paris, Tennessee.

The underlying crude oil refund was issued to Whipany Paper Board Company on November 20, 1990. On the verification form submitted by your filing service, they request that the supplemental check be issued to Edenwood Corporation instead. They further state that the only significant change in status experienced by Whipany Paper Board Company since the original refund was disbursed is the change of name to Edenwood Corporation.

Please explain the circumstances through which Whipany Paper Board Company became affiliated with Edenwood Corporation. If the change is in name only, we will require verification (i.e., amended Articles of Incorporation) of the name change. If, instead, Edenwood Corporation purchased Whipany Paper Board Company, we will require verification of what was included in the sale (i.e., assets only or capital stock of the firm). Please also confirm whether Whipany Paper Board Company is still operating and can negotiate a check made out to the firm. We have tried repeatedly and unsuccessfully to obtain this information by telephone.

Please submit the information requested above within thirty (30) days of the date of this letter. If we do not receive the requested information within that time, we will assume you are not interested in pursuing this matter further and will consider dismissing your case. You should mark your submission with the case number referenced above and send it to the attention of OHA Staff Analyst Darcy Goddard at: Office of Hearings and Appeals, Department of Energy, 1000 Independence Ave., S.W., Washington, DC 20585-0107. Please feel free to contact Ms. Goddard if you have questions about this letter, at telephone number (202) 426-1527.

Sincerely,

Virginia A. Lipton

for Thomas L. Wieker
Deputy Director
Office of Hearings and Appeals

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REPORT ON THE QUALITY OF THE INTERSTATE WATERS OF THE LOWER PASSAIC RIVER AND UPPER AND LOWER BAYS OF NEW YORK HARBOR

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U. S. DEPARTMENT OF THE INTERIOR
U.S. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
NORTHEAST REGION
HUDSON DELAWARE BASINS OFFICE
Edison, New Jersey

November 1969

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SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

SUMMARY

1. Section 10 of the Federal Water Pollution Control Act, as amended, authorizes the Secretary of the Interior to call a conference regarding the pollution of interstate waters if requested to do so by the Governor of a State, or when, on the basis of reports, surveys, or studies, the Secretary has reason to believe that pollution of interstate waters is endangering the health or welfare of persons in a State other than that in which the discharge or discharges originate.

2. The first session of the Hudson River conference was held in September, 1965, at the request of the Governors of New York and New Jersey. Subsequent sessions, to review compliance with initial conference recommendations and discuss new problems, were held in September, 1967 and June, 1969. Recommendations of the conference as approved by the Secretary state in part that "...All wastes prior to discharge into the waters covered by the conference (a) shall be treated to provide a minimum of 80 percent reduction of biochemical oxygen demand at all times. It is recognized that this will require a design for an average removal of 90 percent of biochemical oxygen demand. Or (b) shall be treated, as approved by the State Water Pollution Control Agency, to the degree necessary to meet the water quality standards approved by the Secretary of the Interior under the Water Quality Act of 1965. All the waters covered by the conference shall receive effective disinfection of the effluents as required to protect water uses..." and "...the following time schedule for the foregoing remedial program: a) designs for remedial facilities completed by January 1, 1967; b) financing arrangements completed by April 1, 1967;

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c) construction started by July 1, 1967; d) construction completed and plants placed into operation by January 1, 1970...". The complete recommendations of the Secretary for the first and second sessions and the recommendations to the Secretary by the conferees for the third session are contained in the Appendix of this report.

3. At the June, 1969 session, preliminary reports were presented by the Federal Water Pollution Control Administration regarding the operation of the Passaic Valley Sewerage Commissioners' waste treatment facility, direct discharges to the Lower Passaic River and the effect of the direct discharges on water quality in the Lower Passaic River. Since that session, additional studies have been conducted by the Federal Water Pollution Control Administration to evaluate the operational efficiency of the Passaic Valley Sewerage Commissioners' waste treatment facility and the effect of its effluent on the water quality of the Upper and Lower Bays of New York Harbor. Studies were also conducted by the Federal Water Pollution Control Administration and the New Jersey State Department of Health to identify waste discharges to and evaluate the water quality of the Lower Passaic River.

CONCLUSIONS

1. The quality of the interstate waters of the Upper and Lower Bays of New York Harbor and the Passaic River is below that required by the approved Federal-State Water Quality Standards. In the interstate waters of New Jersey, the present standards prescribe the highest use as follows: in the Upper Bay — limited recreation and fish survival and in the Passaic River

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upstream to the head of tide-fish survival. In the interstate waters of New York, the present standards prescribe the highest use as follows: in the Lower Bay-bathing and in the Upper Bay-fishing.

2. The quality of water in the Upper and Lower Bays of New York Harbor is affected by the discharge of inadequately treated waste from Passaic Valley Sewerage Commissioners and other discharges originating in the New Jersey-New York City Metropolitan area.

3. As a result of inadequately treated wastes originating in Upper Bay of New York Harbor, a public health hazard exists in the waters of Lower Bay which are classified for recreational purposes. Pathogenic organisms have been isolated in the effluent of the Passaic Valley Sewerage Commissioners, in the waters of Upper Bay of New York Harbor, in the vicinity of Passaic Valley Sewerage Commissioners' dispersal field and in the waters off the bathing beaches of the Lower Bay of New York Harbor.

4. Most of the municipalities and industries in the conference area are moving to meet the conference recommendations.

5. The Passaic Valley Sewerage Commissioners have not initiated adequate action to comply with the conference recommendations for needed treatment facilities.

6. Court action against the Passaic Valley Sewerage Commissioners for not complying with New Jersey treatment requirements was initiated in 1967 by the New Jersey State Department of Health. The Chancery Division of the Superior Court and the Appellate Division of the Superior Court upheld the Department's orders in dealing with the quality of effluent discharges from the Commissioners' facility.

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7. The enforcement responsibilities of Passaic Valley Sewerage Commissioners to maintain the quality of the Passaic River as prescribed by the enabling legislation are not being carried out.

8. Industrial and untreated municipal waste discharges are degrading the quality of water in the Passaic River.

RECOMMENDATIONS

1. The Passaic Valley Sewerage Commissioners take necessary action without further delay to comply with the administrative order dated August 9, 1966, issued by the State of New Jersey and with the previous recommendations of this conference.

2. The Passaic Valley Sewerage Commissioners take necessary steps to insure that present and future pollutional sources in the service area of the Commissioners utilize the regional treatment facilities completely for final disposal of wastes.

3. The Passaic Valley Sewerage Commissioners provide a minimum of 80% reduction of biochemical oxygen demand for all wastewater in accordance with the schedule established by the conference. This requires a design for an average reduction of 90% of biochemical oxygen demand as required by the recommendations of the Hudson River Conference. As an immediate measure, effective chlorination, in accordance with State requirements, be provided to reduce the health hazards from the Passaic Valley Sewerage Commissioners' effluent in the Lower Bay of New York Harbor.

4. Municipalities in the Passaic Valley Sewerage Commissioners' service area initiate remedial action to eliminate illegal connections to storm sewers.

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5. The Passaic Valley Sewerage Commissioners improve the present method of controlling combined sewer overflows in its intercepting sewer system. Existing manually operated by-pass valves be replaced by an automatic regulating system.

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INTRODUCTION

Section 10 of the Federal Water Pollution Control Act, as amended, authorizes the Secretary of the Interior to call a conference on the pollution of interstate waters if requested to do so by the Governor of a State, or when, on the basis of reports, surveys, or studies, the Secretary has reason to believe that pollution of interstate or navigable waters is endangering the health or welfare of persons in a state other than that in which the discharge or discharges originate.

The first session of the Hudson River Conference was held in September, 1965 at the request of the Governors of New York and New Jersey and on the basis of reports, surveys, or studies. This conference brought together interested Federal, State, interstate and local agencies to discuss the pollution problems of the interstate waters of the Hudson River and the New York Metropolitan Area.

During the conference the New Jersey conferee delivered a statement from the Passaic Valley Sewerage Commissioners. The statement dealt with the area and population serviced by the Commissioners and the policing duties performed in connection with water pollution control regulation of the Passaic River and its tributaries below Great Falls. The Commissioners reported that through their efforts, pollution emanating within their jurisdiction had been effectively controlled. Some of the problems faced by the Passaic Valley Sewerage Commissioners' primary treatment plant were presented as well as the actions planned for correcting them.

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The second session of the Hudson River Conference was convened in September, 1967 to review compliance with initial conference recommendations and to discuss new problems. The New Jersey conferee reported on recent legal actions taken against polluters with particular reference to the State's injunctive proceeding to require the Passaic Valley Sewerage Commissioners to comply with the requirement for post chlorination.

A third session of the conference was held in June, 1969. The conferees reviewed progress of pollution abatement programs established by the States of New York and New Jersey and the Interstate Sanitation Commission. Special attention was focused on the significance of combined sewer overflows in the conference area.

A report on an inspection of the Passaic Valley Sewerage Commissioners' waste treatment facility conducted in June, 1969 was presented by the Federal Water Pollution Control Administration. This report indicated that to improve the effectiveness of treating the average flow into the plant, all existing sedimentation basins should be in operation. At the time of the inspection 20 of the 60 basins were out of operation. It appeared that routine maintenance of the operating basins was not adequate to insure their proper operation. Additional statements were also made regarding the number of direct discharges into the Passaic River and the resulting degradation of water quality.

The State of New Jersey reported that all governmental agencies within the conference area, except Passaic Valley Sewerage Commissioners, had complied with directives to provide effective post-chlorination of

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the effluent every year during the period of May 15 to September 15. The New Jersey conferee further stated that court actions had been initiated against the Passaic Valley Sewerage Commissioners for: (a) failing to meet the requirement for chlorination and (b) for not acting toward compliance of a previous order to provide adequate treatment as required by the approved standards.

Appendix A contains the conclusions and recommendations of these three conference sessions. The major conference recommendations require that "... All wastes prior to discharge into the waters covered by the conference *shall be treated to provide a minimum of 80 percent reduction* of biochemical oxygen demand at all times. It is recognized that this will require a design for an average removal of 90 percent of biochemical oxygen demand. All the waters covered by the conference shall receive effective disinfection of the effluents as required to protect water uses..." The conferees agreed that all remedial facilities be placed in operation by 1970 except the proposed North River facility which cannot be completed and in operation until 1972.

Subsequent to the third session, the Federal Water Pollution Control Administration conducted additional studies to evaluate the operational efficiency of the Passaic Valley Sewerage Commissioners' waste treatment facility and the effect of its effluent on the quality of the interstate waters of Upper and Lower Bays of New York Harbor. Surveys were also initiated along the Passaic River to identify the direct discharges to the River and define the quality of water resulting from these discharges. Similar studies had been carried out in May, 1967 at the Passaic Valley

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Sewerage Commissioners' treatment facilities and in August, 1968 along the Passaic River. This report has been prepared to present the results of these studies and to recommend improvements to the Passaic Valley Sewerage Commissioners' waste treatment facilities.

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DESCRIPTION OF THE PASSAIC RIVER BASIN

The Passaic River Basin, situated in northeastern New Jersey and southeastern New York, drains an area of approximately 935 square miles. The Basin is roughly elliptical in shape with a northeasterly length of about 56 miles and a maximum width of 28 miles. It spans across eight counties in New Jersey (Bergen, Essex, Hudson, Morris, Passaic, Somerset, Sussex and Union) and two counties in southeastern New York (Rockland and Orange).

The headwaters of the Passaic River are located north of Millington, New Jersey. From Millington, the River flows northeast for about 32 miles to the Great Piece Meadows above Caldwell, New Jersey, and continues east for 16 miles to Great Falls near Paterson, New Jersey. At Paterson, the river turns due south for 24 miles to its confluence with Newark Bay. The last 17 miles of the Passaic River from Dundee Dam to Newark Bay are tidal.

The Basin can be divided into three distinctly separate physiographical regions: The Highland Area in the northwest part of the Basin, comprising about 55 percent of the total watershed area; the Central Basin located in the southerly portion of the watershed and representing a little over 25 percent of the total area; and the Lower Valley comprising only about 20 percent of the watershed area and located in the eastern fringe of the Basin.

The Highland area is characterized by broad ridges and narrow valleys with terrain that is rugged and wooded. It contains many natural and man-made lakes. The area is sparsely settled and supports minor industrial activity.

The Central Basin consists of small hills, flat meadows and extensive areas of fresh water swamps. The major part of this Basin is rapidly undergoing residential and commercial development.

The Lower Valley is similar in physiographic characteristics to the Central Basin. It is essentially a flat, wide, flood plain with abutting low rolling hillsides. The area is densely populated and contains some of the most highly developed land in New Jersey. Extensive industrial activities are concentrated in the Valley.

The population of the Basin in 1968 totaled about 2,000,000 persons, the majority of which are located in the highly urbanized Lower Valley. Population densities varied from a low of about 130 persons per square mile in Sussex County to a high of 7,140 persons per square mile in Essex County.

At least 155 municipal and 23 industrial facilities discharge treated wastewaters into the Passaic River Basin. The majority of the municipal facilities, all generally located in the Highland and Central Basin areas, provide secondary treatment with chlorination to a total flow of approximately 50 mgd. The Passaic Valley Sewerage Commissioners, the largest wastewater collection and treatment facility in the Basin, handles the domestic and industrial wastes primarily within the Lower Valley. The Commissioners' plant, serving 1,200,000 people, nearly three-fifths of the total sewered population in the Basin, discharges primary treated effluent without disinfection into the interstate waters of Upper Bay of New York Harbor.

The main stem of the Passaic River below the confluence with the Pompton River is considered interstate water under Section 10 of the Federal Water Pollution Control Act, as amended. The classifications established for these interstate waters are given below. Detailed definitions of these classes and their criteria are provided in Appendix B.

WATER	CLASSIFICATION	HIGHEST USE
Newark Bay	TW-3	Navigation not recreation
Passaic River (main stem from mouth to head of tide at Dundee Lake Dam)	TW-3	Navigation not recreation
Passaic River (main stem and tributaries between Dundee Lake Dam and Little Falls)	FW-3	All recreational purposes but not for public potable water supply
Passaic River (main stem between Little Falls and its confluence with the Pompton River)	FW-2	Public potable water supply after treatment and all recreational purposes

TABLE 6
DIRECT WASTE DISCHARGES
PASSAIC RIVER 1/

Map Ident. No.	Source Municipality	River Mile 2/	Pipe Size	Est. Flow mgd	Temp. °C	BOD mg/l	Total Suspended Solids mg/l	pH	Total Coliform Org./100 ml	Fecal Coliform Org./100 ml	Remarks
1	Passaic Valley Sewerage Comm. 3/ 4/ Newark	0.1	undetermined	-	-	-	-	-	-	-	BOD = 241 mg/l yellow color, odor
2	Vulcan Materials 3/ 4/ Newark	0.6	36", 6", 8"	-	-	-	-	-	-	-	High BOD, pH = 9.6 - 13.4
3	Ashland Chemical Co. 4/ Newark	1.1	3" 24"	-	-	-	-	-	-	-	Temp. >70°C Q = 0.05 mgd
4	Revere Smelting & Refining Co. 3/ 4/ Newark	1.1	Open ditch	-	-	-	-	-	-	-	BOD = >421 mg/l Ether sol. = 14 mg/l yellow color, pH = 2.7 Q = 0.25 mgd
5	Celanese Chemical Co. 3/ 4/ Newark	1.1	6"	-	-	-	-	-	-	-	BOD = >430 mg/l Q = 0.25 mgd
6	Essex Chemical Corp. 3/ Newark	1.4	18", 18", 18", 15"	0.1	25.0	nil	352	6.5	$32x10^4$	$28x10^3$	BOD = <8.0 mg/l, pH = 8.2 4/
7	Roanoke Ave. Storm Sewer 3/ Newark	1.7	60"	1.90	27.0	740	1,230	6.7	$75x10^4$	$31x10^3$	Oil & chemical odor BOD = 382 mg/l, pH = 8.8 Ether sol. = 228 mg/l Phenol = 1.5 ppm 4/
8	Western Electric Kearny	1.9	18", 18", 18", 21" other 10"	18" = .01 18" = slight	25.0 -	nil -	278 -	6.7 -	$26x10^3$ -	$22x10^2$ -	
9	Surface Runoff Kearny	2.1	48", 6", 18"	-	-	-	-	-	-	-	
10	Surface Runoff Kearny	2.1	12"	-	-	-	-	-	-	-	
11	Alcan Aluminum Corp. of America 3/ Kearny	2.2	4", 2", several other pipes 3"	4" = .01 2" = .02 -	42.0 44.0 -	2 7.4 -	42 60 -	7.7 7.6 -	10 10 -	4 4 -	Cr = 122 ppm Cn = 70 ppm pH = 4.3 4/
12	Storm Sewer 3/ Newark	2.5	18", 18"	-	-	-	-	-	-	-	
13	Kramer Chemical Co. 3/ Kearny	2.5	Flow through 8" hole in bulkhead	0.001	22.0	nil	580	12.0	10	4	
14	Monsanto Chemical Co. Kearny	2.7	27" with V notched weir	0.20	43.5	nil	68	8.8	$26x10^3$	$71x10^2$	
15	Public Service Essex Gen. Station Newark	2.8	28", very large outlet with gate	very large 28"-very lg.	33.0 38.5	nil 7.4	8 236	7.0 8.7	$38x10^4$ $21x10^3$	$60x10^2$ $40x10^2$	
16	Hudson County Mosquito Control Kearny	3.0	12"	large-under pressure	19.0	nil	312		$45x10^3$	40	
17	Commercial Solvents 4/ Newark	3.1	2"	-	-	-	-	-	-	-	
18	Blanchard Street Storm Sewer 3/ 4/ Newark	3.2	-	-	-	-	-		-	-	pH = 6.4

TABLE 6 (Cont'd.)

Map Ident. No.	Source Municipality	River Mile 2/	Pipe Size	Est. Flow mgd	Temp. °C	BOD mg/l	Total Suspended Solids mg/l	pH	Total Coliform Org./100 ml	Fecal Coliform Org./100 ml	Remarks
53	Storm Sewer Passaic	16.0	27"	Medium	24.0	120	150	-	$>80x10^4$	$>30x10^3$	Sewage appearing effluent
54	Storm Sewer Passaic	16.2	18"	Small	-	-	-	-	-	-	Sample could not be taken
55	Tenneco Chemicals Heyden Division Garfield	16.2	12" 13" 22" 24"	Large 0.01 Large Large	32.0 22.0 36.0 36.0	154 9.2 103 29.5	276 234 194 198	- - - -	$17x10^5$ $40x10^5$ $60x10^5$ $33x10^5$	$17x10^4$ $35x10^4$ $35x10^4$ $26x10^4$	May contain detergent, Dead fish in outfalls
56	Storm Drain Garfield	16.5	2"	-	-	-	-	-	-	-	
57	Whippany Paper-Clifton Mills Clifton	17.1	12", outfall w/gate	0.01	26.0	2.8	106	-	$15x10^5$	$22x10^4$	
58	Route 80 Storm Sewer Garfield	19.1	30" corregated steel outfall	-	-	-	-	-	-	-	
59	19th Street Storm Sewer Paterson	19.7	84"	0.02	21.0	4.3	40	7.5	$64x10^1$	$15x10^1$	
60	Eastern Machine Co. Paterson	21.0	8"	-	-	-	-	-	-	-	
61	Storm Sewer Fair Lawn	21.8	24"	0.32	19.0	nil	10	7.4	$80x10^4$	$30x10^3$	
62	Bergen County Storm Sewer Fair Lawn	21.8	24" 10"	- -	- -	- -	- -	- -	- -	- -	
63	3rd Avenue Overflow Paterson	22.0	36"	-	-	-	-	-	-	-	Colored discharge
64	Bergen County Storm Sewer Fair Lawn	22.3	24"	0.08	29.0	nil	36	7.4	$46x10^1$	44	
65	1st Avenue Storm Sewer Paterson	22.3	24", 30"	-	-	-	-	-	-	-	White material in discharge
66	Storm Sewer from Fair Lawn Ind. Fair Lawn	22.3	4'x4' opening	-	-	-	-	-	-	-	
67	Storm Sewer Fair Lawn	22.5	3 pipes of Undetermined size	-	-	-	-	-	-	-	
68	Continental Piece Dyeing & Finishing Co. Paterson	22.5	2-2"	0.002	>50.0	1.4	30	-	10	4	Oil on bank
69	Storm Sewer Prospect Park	23.7	2-36"	-	-	-	-	-	-	-	
70	Storm Sewer Prospect Park	23.7	18"	-	-	-	-	-	-	-	Oil stain in pipe
71	Associated Dye & Print Co. Paterson	23.7	6" 3" Undetermined size	0.03 very large .24	>50.0 >50.0 -	1.8 9.7 92.0	16 104 270	- - 7.8	20 10 $28x10^3$	4 4 $11x10^3$	Colored discharge

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PASSAIC RIVER
DIRECT WASTE DISCHARGE
MUNICIPAL AND INDUSTRIAL

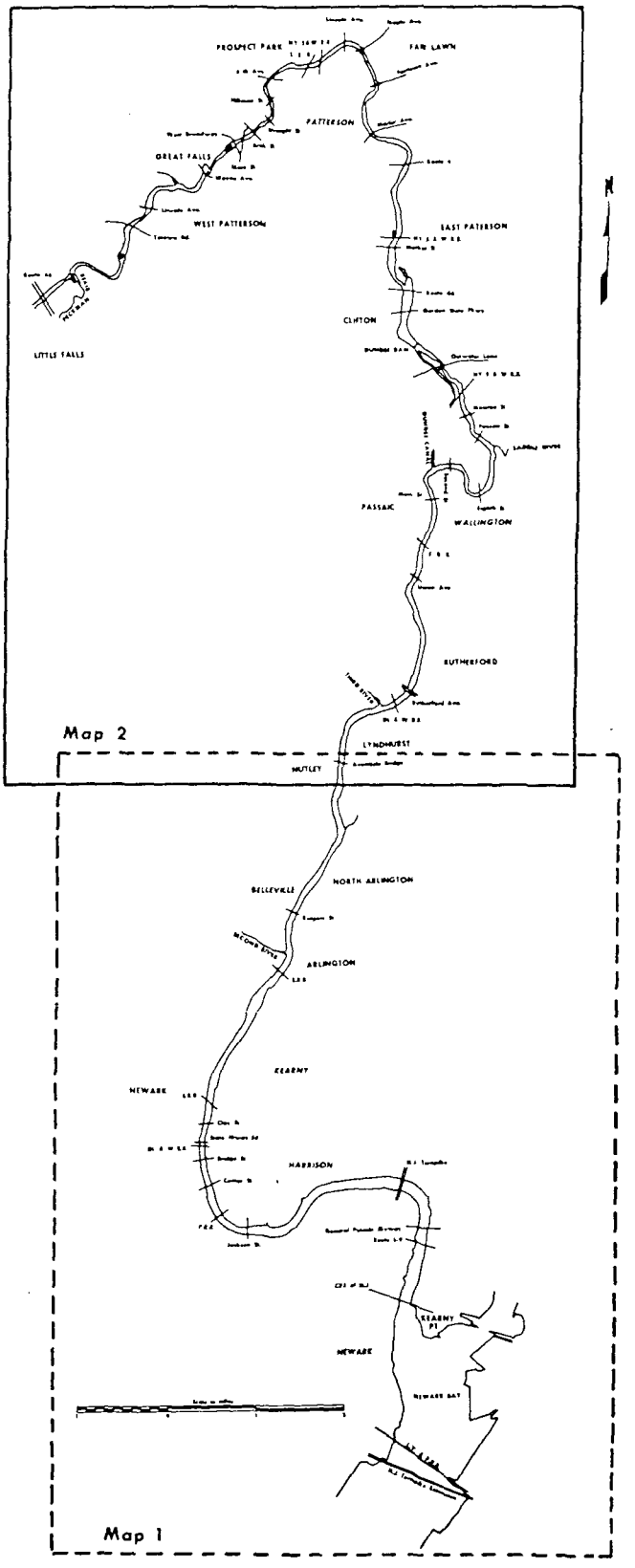
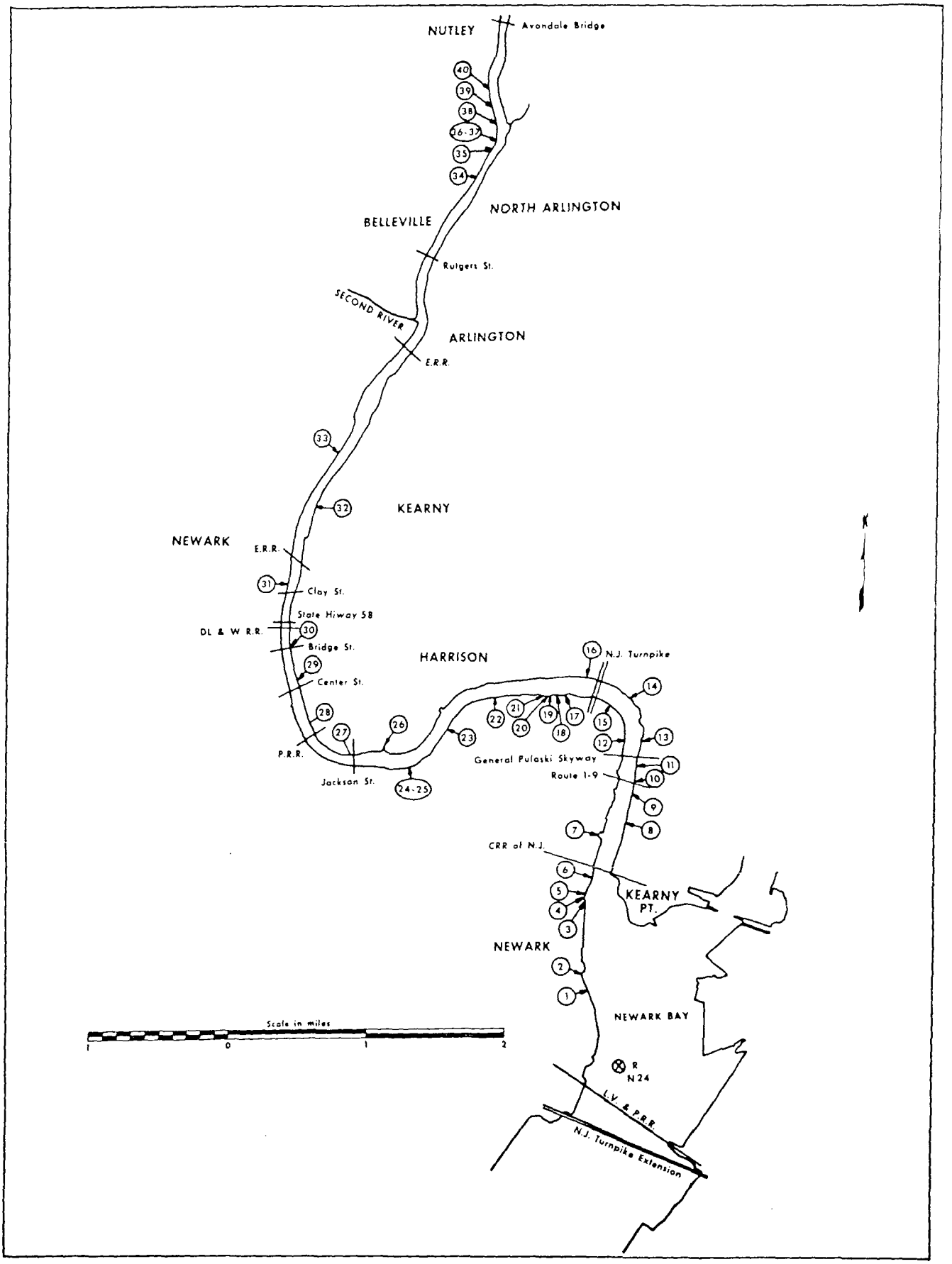


Figure 13



Map 1

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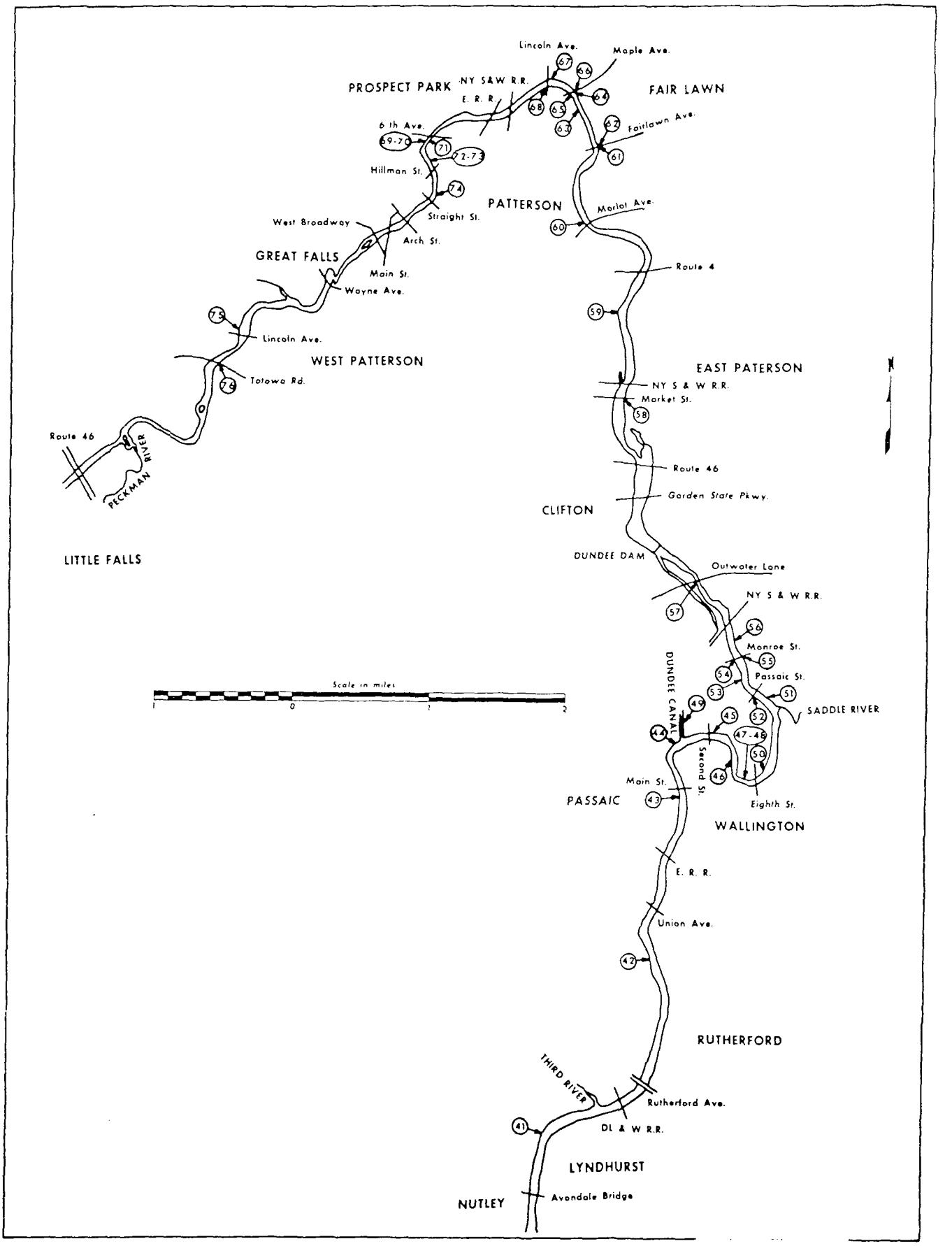

Map 2

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ROY F. WESTON, INC.

SECTION 4M/6J
REMEDIAL INVESTIGATION REPORT
ROUTE 21 FREEWAY EXTENSION

Volume I of II

WESTON®
MANAGERS DESIGNERS/CONSULTANTS

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ABK001105

SECTION 4M/6J
REMEDIAL INVESTIGATION REPORT
ROUTE 21 FREEWAY EXTENSION

Volume I of II

September 1995

Work Order No.: 01964-004-005

Prepared for:

NEW JERSEY DEPARTMENT OF TRANSPORTATION
1035 Parkway Avenue
CN 600
Trenton, New Jersey 08625

Prepared by:

ROY F. WESTON, INC.
Raritan Plaza I
4th Floor
Raritan Center
Edison, New Jersey 08837

REMEDIAL INVESTIGATION REPORT
ROUTE 21 FREEWAY EXTENSION

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ROUTE 21 FREEWAY EXTENSION

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SECTION 1.0

INTRODUCTION

1.1 PROJECT OVERVIEW

The New Jersey Department of Transportation (NJDOT) has retained Roy F. Weston, Inc. (WESTON®) to conduct a site contamination investigation along the proposed Route 21 Freeway Extension located within Passaic and Bergen counties. To date, three distinct phases of the investigation have been performed by WESTON. The first two phases (referred to as Task I and Task II) included site screening and limited sampling. These phases are described in more detail later in this section. The third phase (referred to as Task III) consisted of the implementation of Remedial Investigations (RIs) at 24 properties with areas of environmental concern (AECs) located along the proposed Route 21 Freeway Extension. This RI Report describes the activities that took place at 14 of the 24 properties (Sites 1-3, 5-14 and 25) which are located in the City of Passaic and the City of Clifton, New Jersey.

The initial screening phase of the investigation, referred to as Task I, identified 110 commercial, industrial, state, county and municipally owned properties along the 1.8 miles of proposed right of way (ROW). This task was conducted by WESTON in 1989 and 1990. Based on an extensive data compilation and review, and on site surveys, these properties were ranked according to their potential for environmental concern. The results of the Task I investigation ranked 21 properties with a high potential for environmental concern. The findings of this investigation were reported in "Site Contamination Screening Report" (WESTON, 1990).

The Task II screening investigation, conducted by WESTON in 1991 and 1992, involved environmental sampling within the properties ranked with a high potential for environmental concern. The purpose of the screening investigation was to verify the presence or absence of contamination at the respective sites. The investigation included the collection of approximately 100 soil samples and 4 sediment samples which were analyzed for United States Environmental Protection Agency (USEPA) priority pollutant compounds. The results confirmed the presence of priority pollutant compounds in soils in excess of the New Jersey Department of Environmental Protection (NJDEP) Proposed Cleanup Standards (N.J.A.C. 7:26D) at 20 sites with AECs. The results of this investigation were reported in "Task II Site Contamination Screening Investigation" (WESTON, 1992). Based on these results, NJDOT proceeded with RIs at each site. The adoption of new NJDEP Soil Cleanup Criteria in February 1994, realignment of portions of the proposed roadway, and review of additional historical site-use information has increased the number of sites requiring RIs to 24.

Due to varied construction schedules for portions of the proposed freeway extension, the 24 sites under investigation are divided into three distinct phases. These phases will be referred to as the Crooks Avenue Interchange/Route 46 Bridge sites (3 sites), the Hope Avenue to Dayton Avenue sites (7 sites) and the Section 4M/6J sites (14 sites). To date, RIs have been completed for the three Crooks Avenue Interchange/Route 46 Bridge sites. Site 8, which is included in Section 4M/6J, has been targeted for an accelerated RI schedule. The accelerated RI schedule at Site 8 was designed to accommodate the selection of this site as a proposed dewatering location for sediments to be dredged from the Passaic River and Dundee Canal as part of the Crooks Avenue Interchange/Route 46 Bridge.

As previously stated, this Remedial Investigation Report addresses the Section 4M/6J sites. Section 1.0 provides an overview of the Route 21 Freeway Extension Project; Section 2.0 describes the land use and the environmental setting of the study area; Section 3.0 discusses the implementation of the RIs and provides results of the investigations; and Section 4.0 presents conclusions and recommendations.

1.2 REMEDIAL INVESTIGATION APPROACH

WESTON utilized current NJDEP guidance on conducting the site investigations, while performing the RI, and while preparing the RI report. Current guidance includes "Technical Requirements for Site Remediation Proposed New Rules" (N.J.A.C. 7:26E) and NJDEP's "Field Sampling Procedures Manual" (May 1992). All activities conducted as part of the RIs adhered to the NJDEP approved "Section 4M/6J Remedial Investigation Work Plan" (March 1994).

The Section 4M/6J sites are located within the proposed ROW for the Route 21 Freeway Extension. The section consists of Sites 1-3, 5-14, and 25. Soil borings were conducted at sites 1, 3, 12 and 25. Sediment and surface water sampling in the Dundee Canal was performed at sites 2, 9, and 11.

Based on the nonresidential nature of the proposed freeway, NJDOT initially applied the NJDEP nonresidential direct contact soil cleanup criteria (NRDC) as well as the impact to groundwater (IGW) soil cleanup criteria to all soils analyzed. Comparisons have also been made to the residential direct contact (RDC) soil cleanup criteria to evaluate the need for engineering and institutional controls at sites where contaminants were found. Currently, no IGW soil cleanup criteria exist for target analyte list (TAL) inorganics. Therefore, the RDC and NRDC soil cleanup criteria were used for evaluation of soil samples analyzed for TAL inorganics. This approach has been utilized during RIs performed at the remaining 10 sites.

Analytical results for sediment samples were compared with the biological effects screening levels presented in the NJDEP "Guidance for Sediment Quality Evaluations," March 1991. The "Effects Range - Low" (ER-L) and "Effects Range-Medium (ER-M) qualitatively represent concentrations above which adverse effects to aquatic life may occur.

Waste classification uses indicators and criteria provided in the NJDEP "Hazardous Waste Regulations", (N.J.A.C. 7:26). Surface water analytical results were evaluated in relation to the NJDEP, "Surface Water Quality Standards, "(N.J.A.C. 7:9B).

A geophysical survey was performed at Site Nos. 3 and 10 for the purpose of identifying anomalies associated with the presence of underground storage tanks (USTs). A method summary for the geophysical investigation is contained in Appendix A. Field observations at both sites and subsequent intrusive investigations at Site 10 are discussed in Section 3.0.

NJDOT currently owns 5 of the 14 sites located within Section 4M/6J. The remaining sites are owned by separate parties including the Parkstein Company (Sites 1 and 3), Dundee Water and Power Company (Sites 2, 9, 11 and 13), Conrail (Site 6), Chelton Realty (Site 7), and Jean Ribbon Mills (Site 25). Access to NJDOT-owned properties was unrestricted. Access to the remaining properties was obtained through notification of the owners by NJDOT.

WESTON's implementation of the work plan was observed by representatives of Dan Raviv Associates, Inc. of Millburn, New Jersey, at Sites No. 1, 2, 3, 9, 11 and 13. Dan Raviv also collected split samples. Dan Raviv Associates, Inc. was employed by the property owners to perform this task.

Investigations at Site Nos. 5, 6 and 7 were limited to visual inspections to identify the presence of staining. Based on the site evaluations no samples were collected. The Remedial Investigation Work Plans for these sites were amended by WESTON's letter dated 18 May 1995, during the investigation phase.

3.8 SITE 9 - DUNDEE WATER POWER COMPANY - DUNDEE CANAL, BLOCK 52/LOT 19

3.8.1 Property Description

Block 4.14, Lot 1 (Site 9) encompasses the Dundee Canal from the Passaic/Clifton border to Ackerman Avenue in Clifton, New Jersey. The canal is currently owned by the Dundee Water and Power Company. The lot extends nearly 1,300 linear feet and occupies roughly 2.5 acres.

This portion of the canal is adjacent to Block 4.15, Lot 1 (industrial property); Block 4.19, Lot 1 (industrial property); and Block 4.13, Lots 5 and 30 (Site 10). Stormwater runoff from several of these properties discharge to the canal. A discharge pipe leading into the canal from an adjacent industrial property was noted. Several steel pipes extend across the canal at different locations. Information pertaining to the function of those pipes was not available during the record review. In addition, household refuse, tires, wood and miscellaneous debris are present along the entire length of the canal.

3.8.2 Site History

The Dundee Canal was constructed during the late 1800s and was used for industrial transport in conjunction with railroad lines. The canal is not currently utilized for any purpose. The following is a chronological history of the canal summarized from aerial photographs and Sanborn maps.

- 1935 - Sanborn Map

The 1935 Sanborn map shows the Dundee Canal extending from Ackerman Avenue to the Passaic/Clifton border.

The canal was bordered by the Ackerman Avenue bridge to the north and Passaic/Clifton border to the south, with undeveloped land and the Clifton Paper Board Company, currently the Garden State Paper Company, located on the eastern bank. The lot was bounded by the Forstmann Woolen Company (Worsted Mills) and undeveloped land to the west.

The Clifton Paper Board Company had two "Acid Tanks" and a "Coal Pile" bordering on the canal and the Woolen Company had a 1,500-gallon pump on the canal.

- 1940 - Aerial Photograph

An area of soil disturbance or debris was evident on the southeastern shoreline. Evidence of a "coal pile" is not visible on the eastern shore as noted on the 1935 Sanborn map.

- 1951 - Sanborn Map

A "Filling Station" was constructed 50 feet from the western bank of the canal on Ackerman Avenue (Site 10).

- 1951 - Aerial Photograph

Vegetation had replaced the disturbed soils evident in the 1940 aerial photograph. It also appears that the manufacturing facility on the eastern shore of the canal (Clifton Paper Board Company) was discharging into the canal. Other significant changes were not evident at the site or the surrounding area from 1940 to 1951.

- 1952 - Sanborn Map

There were no significant changes to the site or surrounding area since 1951.

- 1961 - Aerial Photograph

The 1961 aerial photograph indicates that drums were stored adjacent to the manufacturing facility (Clifton Paper Board) on the eastern shore. Additional land was also paved on the northwestern shore. There are no other significant changes to the site or surrounding area on this photograph.

- 1965 - Sanborn Map

The 1965 Sanborn map indicates that the Clifton Paper Board Company had changed its name to the Whippany Paper Board Company, Inc. - Clifton Plant. Also, the Forstmann Woolen Company on the western shore had changed its name to the Duralite Company, an outdoor furniture manufacturer.

- 1970 - Sanborn Map

Review of the 1970 Sanborn map indicates no changes since 1965.

- 1974 - Aerial Photograph

Additional vegetation had grown along both shorelines since 1961. The drums which were present on the eastern shore in 1961 had been removed and replaced with tractor trailers.

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- 1984 - Sanborn Map

The filling station which was located 50 feet from the western bank of the canal on Ackerman Avenue was no longer present. No other significant changes to the site are evident when compared to 1974.

3.8.3 Environmental Setting

This section of the Dundee Canal receives stormwater runoff from numerous commercial, industrial and residential properties located on the eastern and western banks of the canal. Water in the canal flows slowly from south to north.

Sediment depths were not established during the Task II and III investigations; however, borings were installed in the Passaic River adjacent to the northern terminus of the canal during the 1992 NJDOT Route 21 Geotechnical Investigation. Sediment depths of approximately 7 to 9 feet were observed in the borings installed within the Passaic River. Top of bedrock within these borings was encountered from 25 to 90 feet bgs.

A wetland encompassing approximately 0.01 acre is located on the western bank of the Dundee Canal south of the Ackerman Avenue Bridge. The wetland consists of arrow arum, broad-leaved arrowhead, pickerelweed and water purslane.

Although the water in the Dundee Canal has not been given a water quality designation by NJDEP, it would most likely be FW2-NT. Historically, mills along the canal discharge industrial effluent into the canal. Testing performed in 1986 by the NJDOT revealed high levels of ammonia and phosphate. Levels of turbidity, chlorides, suspended solids, pH and DO were within NJDEP standards for FW2-NT waters.

3.8.4 Description of AECs

3.8.4.1 Previously Identified AECs

The primary environmental concern at this site is from the potential for contamination within the canal, which may have resulted from historical use of the canal for industrial purposes (discharges, transportation) or contamination from nonpoint sources (stormwater runoff). Using a PONAR sampler, one sediment sample was collected from 0 to 12 inches below the bottom of the canal during the Task II investigation. The sample was obtained in the center of the canal adjacent to the current Garden State Paper Company property. The sediment sample was analyzed for PP+40 and TPHs and screened using an HNu.

The analytical results for the sample collected are provided in Table 3-11. Only those compounds detected are listed in this table. The sample collection depth and a comparison to NJDEP sediment quality criteria are also provided. The sample location is provided in Figure 3-8.

Analytical results of the sediment sample identified several SVOCs (CaPAHs) and metals (mercury, lead, and zinc) at concentrations exceeding the ER-L sediment quality criteria. The reported concentration for lead (170 mg/kg) also exceeded the ER-M criteria of 110 mg/kg.

The vertical extent of the sediment contamination has not been determined. Surface water quality is also a concern in the canal based on the results of the sediment sampling and land use in the area.

3.8.4.2 Additionally Identified AECs

This site consists of a large section of the Dundee Canal from Ackerman Avenue to the Clifton/Passaic border. Major concerns center around industrial sites that have existed on or near the banks of the canal and may have had releases that migrated into the canal.

Historically, there have been two major industrial plants bordering this section of the canal: Clifton Paper Board facility on the eastern bank and the Forstmann Woolen Company/Duralite on the western bank. In the 1951 aerial photograph it appears that the Clifton Paper Board company was discharging into the canal. The 1961 aerial photograph indicates that drums were stored adjacent to the facility. On the western bank, the Forstmann Woolen Company was present from before 1935 to 1965 when this facility became the Duralite Company, a manufacturer of outdoor furniture.

In 1951 a filling station was located 50 feet from the canal on Ackerman Avenue. By 1984 this station had been demolished.

3.8.5 Implementation of the Remedial Investigation

To further delineate the vertical extent of contamination in the canal at Site 9, two borings were completed from 0 to 10 foot below the canal bottom. Boring locations, shown on Figure 3-8, were limited to the 700-foot section of the canal which will be impacted by construction.

Three soil samples were collected from each boring in accordance with NJDEP's "Guidance For Sediment Quality Evaluation," (March 1991). The samples were collected from the surface (0 to 6 inches below the canal bottom), the mid-range, and the bottom of the borings. The mid-range sample was biased toward soils showing evidence of contamination (i.e., elevated PID measurements or visual staining). When no evidence of contamination was observed, the mid-range samples were collected from 5 to 5.5 feet below the canal bottom, and the bottom samples were collected from the 9.5- to 10-foot interval below the canal bottom.

Sediment samples were analyzed for BNA+20, TAL inorganics, TOC, pH, Dioxin/Furan, and particle grain size.

One composite sample was collected from each boring, by combining equal portions of the surface, mid-range and bottom samples. The composite samples were analyzed for disposal characteristics, including full TCLP parameters, reactivity and PCBs in order to identify disposal and/or treatment options prior to excavation.

One surface water sample was collected from this portion of the canal. The sample was analyzed for TCL+30, TAL inorganics, total coliform, fecal coliform, total suspended solids (TSS), total dissolved solids (TDS), and oil and grease.

3.8.6 Results of the Remedial Investigation

The analytical results for the Site 9 sediment samples indicated that ER-L sediment quality guidelines were exceeded for all eleven SVOC compounds assigned quality guideline criteria. Nine of the ER-M sediment quality guidelines were also exceeded. One or more of the SVOC compounds were detected above sediment quality guidelines in each of the six soil samples. The remaining SVOC compounds identified by the analyses were either below the detection limits for the analytical method used, or present at concentrations below the sediment quality guidelines.

All 22 TAL inorganics were detected in most of the sediment samples collected. However, antimony, cadmium, chromium, copper, lead, mercury, nickel, and zinc were detected in the majority of the samples at concentrations exceeding the ER-L criteria. ER-M criteria was also exceeded in 22 of the samples. With the exception of arsenic, all TAL inorganic compounds identified in the NJDEP, "Guidance for Sediment Quality Evaluation," were present above sediment quality criteria. TOC ranged from 5,000 mg/kg (09-SD2-01B) to 127,000 mg/kg (09-SD2-01A), and pH varied between 6.6 and 7.0. Table 3-12 presents a summary of the analytical results for sediment samples.

Seventeen dioxin compounds were detected in one or more of the samples collected. Concentrations range up to 22,590 ppt. No cleanup criteria are in effect for dioxins.

Particle grain size analysis for the Site 9 samples indicate that the sediment samples vary from location 09-SD2-01 to 09-SD2-02; however, the variation with depth is relatively minor. The surface sample at location 09-SD2-01 is predominantly silt and clay with some sand and trace amounts of gravel. The sand content decreases slightly from the surface sample to the bottom sample. At location 09-SD2-02 the surface sample is predominantly sand with some clay and silt and trace amounts of gravel. The amount of clay and silt in the sample varies from the surface to bottom sample, first decreasing in the mid-range sample then increasing in the bottom sample. Particle size analysis documents are provided in Appendix D.

Waste classification (TCLP) analysis, performed on the sediment samples, indicates that all parameters analyzed were below the criteria classifying the sediments as hazardous waste. Sediment samples were also determined to be nonreactive. Results of the waste classification analyses for SVOCs, VOCs, Pest/Herb, PCBs and metals are presented in Table 3-13, in Appendix C.

The surface water sample obtained at Site 9 was analyzed for VOCs, SVOCs, Metals, oil and grease, total coliform, fecal coliform, TDS, TSS and pH. All parameters with the exception of fecal coliform were either present at levels below the NJDEP FW2-NT surface water standards or below method detection limits. Fecal coliform (1,600 counts/100 mL) exceeded the FW2-NT surface water standard of 200 counts/100 mL). Results of the surface water analytical testing are summarized on Table 3-14 in Appendix C.

3.8.7 Nature and Extent of Contamination

Based on the laboratory analysis, sediment to a depth greater than 10 feet below the bottom of the canal, exceed the NJDEP sediment Quality Guidance Criteria for TAL metals and SVOCs. Contaminant concentrations do not vary consistently with depth or in the upstream/downstream direction. Peak concentrations occur in surface, mid-range, and bottom samples.

Construction of the roadway may require construction personnel to come in direct contact with the contaminated sediments. In order to avoid exposure, remediation of the sediments may be conducted prior to construction. If remediation is not required, construction personnel should be health-and-safety-trained and provided with adequate protective equipment and clothing.

Construction of retaining walls, abutments, piers or filling of the canal may require the removal of sediment and water. Dewatering may be required prior to removal of the sediment. Sediment removed from the canal is not considered hazardous waste, based on the waste classification analysis performed during the RI. Additional waste classification analysis will be required during the removal activities.

3.9 SITE 10 - NJDOT/SBH REALTY ASSOCIATION, BLOCK 4.13/LOT 5, 30

3.9.1 Property Description

Site 10 consists of two properties: Block 4.13/Lot 30, which is owned by the NJDOT, and Block 4.13/Lot 5, which is owned by SBH Realty Association (SBH Realty). Site 10 is located at the corner of Ackerman Avenue and Cheever Avenue in Clifton, New Jersey. The two properties encompass over 2 acres. A commercial gasoline station owned by Chevron Oil Company was present on site from approximately 1950 to 1972. Most of the property the gasoline station occupied is currently owned by the NJDOT; however, a small portion of the gasoline station property may be owned by SBH Realty. Property boundary information was not available during the historical record review. A large one-story structure lies within the western portion

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of the SBH Realty property. The current use of this building is unknown. The building appears to contain a commercial business.

Representatives of WESTON and the NJDOT conducted a site inspection during the Task II investigation. A fill pipe was noted extending from a concrete pad near the center of the NJDOT lot, presumably from a UST. Staining was also observed in this area.

The site is situated within a mixed residential and commercial community. The site is bounded by the Dundee Canal to the northeast and by Ackerman Avenue to the north. Immediately opposite the site to the north of Ackerman Avenue is vacant land (Site 12) and commercial properties. The site is bounded to the southwest by commercial businesses. Vacant land abuts the site to the southeast.

3.9.2 Site History

The following section details the history of the site and surrounding properties. This information was obtained from review of title searches, historical aerial photographs and Sanborn maps.

LOT 30:

The site was vacant prior to 1935. A building was constructed on the property between 1935 and 1940 and a gasoline service station opened for business in that building between 1940 and 1951. The Chevron Oil Company operated the service station until 1972. The building was removed sometime between 1974 and 1984.

Title searches disclosed the following ownership history:

- Louis Rudbart and Anna Rudbart sold the property to Petroleum Holding Co. on 25 January 1944.
- Petroleum Holding Co. sold the property to Home Oil Co. on 31 January 1947.
- Home Oil Co. sold the property to Lawrence P. Marron and Joseph T. Foley, trading under name of Home Oil Co. on 30 January 1954.
- Lawrence P. Marron and Joseph T. Foley sold the property to Chevron Oil Co. on 5 March 1954.
- Chevron Oil Co. sold the property to NJDOT on 14 February 1972.

The following chronological history of the site was compiled from the title search and through a review of aerial photographs and Sanborn maps.

- 1935 - Sanborn Map

The property consisted of vacant land in 1935. The site was bordered to the north by Ackerman Avenue, to the south and the west by vacant land, and to the east by the Dundee Canal.

- 1940 - Aerial Photograph

Review of the 1940 aerial photograph indicates that a building had been constructed on the property. The surrounding area had remained the same with the exception of residential and commercial development to the west of the site.

- 1951 - Sanborn Map

The 1951 Sanborn map indicates that the building was a "filling-station." The surrounding area had undergone additional residential and commercial development since 1940. A "Wire and Cable Works" was located north of the site across Ackerman Avenue.

- 1951 - Aerial Photograph

A large portion of the site had been paved and a larger building had replaced the smaller one shown on the 1951 Sanborn map. A number of cars are parked on site, indicating that the facility was in operation. A large building was constructed southwest of the site.

- 1952 - Sanborn Map

There have been no significant changes within the site since 1951.

- 1961 Aerial Photograph

Review of the 1961 aerial photograph indicates no significant changes within the site since 1952. Gasoline pumps were visible on the section of the property bordering Ackerman Avenue.

- 1965 - Sanborn Map

The site continued to be used as a filling station.

- 1970 - Sanborn Map

The 1970 Sanborn map indicates that no significant changes had occurred on the site since 1965. The building across Ackerman Avenue was no longer present.

- 1974 - Aerial Photograph

The two gasoline pumps visible in earlier aerial photographs adjacent to Ackerman Avenue had been removed, and this section of the property was being used for parking. Changes to the area surrounding the site included additional paving to the south and demolition of the building just west of the site.

- 1984 - Sanborn Map

The filling station has been removed and the entire site was vacant.

LOT 5:

Lot 5 surrounds Lot 30 on three sides and also borders Ackerman Avenue. The following is a chronological history of the site.

- 1935 - Sanborn Map

The site is bounded by Ackerman Avenue to the north, the Dundee Canal to the east, the Forstmann Woolen Company (across Durant Avenue) to the south and commercial/ residential properties to the west. There were several small buildings on the site located in the northwestern corner of the lot.

- 1940 - Aerial Photograph

The 1940 aerial photograph confirmed the presence of the building seen on the 1935 Sanborn map. Several cars were seen on the western side of the site.

- 1951 - Sanborn Map

Two private garages had been constructed on the western portion of the site. One of the buildings included a boiler room. Adjacent to the site, a filling station had been constructed (as indicated in the Lot 30 history). A large building was constructed on the western side of the site.

- 1951 - Aerial Photograph

The 1951 aerial photograph confirms the site features that were included in the 1951 Sanborn map. The 1951 aerial photograph also showed that several cars were parked on the site indicating that it was active.

- 1952 - Sanborn Map

There had been no significant changes within the site or surrounding area since 1951.

- 1961 - Aerial Photograph

Additional paving had been added to the southeastern portion of the site.

- 1965 - Sanborn Map

The site has not changed significantly since 1952.

- 1970 - Sanborn Map

The site remained unchanged since the 1965 Sanborn map.

- 1974 - Aerial Photograph

The small buildings identified in the northwestern portion of the lot have been removed and several trailers were visible within the parking lots.

- 1984 - Sanborn Map

Significant changes have not occurred within the site since the 1970 Sanborn map. A gasoline filling station was constructed to the west, on the corner of Randolph and Ackerman Avenue.

3.9.3 Environmental Setting

WESTON and NJDOT representatives conducted a site inspection of this property in 1991. At the time of the inspection, the majority of the lots were covered by asphalt and concrete. The remainder of the property was unpaved. The site topography is generally flat and slopes towards the Dundee Canal to the east. Surface water runoff generated during storm events appears to flow both into the Dundee Canal and towards Ackerman Avenue. Access to the property is limited by a 6-foot-high chain-link fence enclosing the site.

Overburden encountered during soil boring activities conducted during the Task II investigation was comprised primarily of fill material consisting of silt, sand, and gravel with a trace of clay. Groundwater was encountered at approximately 7 feet bgs. Groundwater flow direction is unknown at present; however, general topographic features indicate that groundwater may flow toward the Dundee Canal. Bedrock was not encountered during boring activities which extended to 18 feet bgs.

According to the National FIRM, published by the U.S. Department of Housing and Urban Development, this site is not located within an area prone to flooding. Also, as indicated in the NJDOT *Ecology Technical Environmental Study* (1987), wetlands are not present within the property boundaries.

3.9.4 Description of AECs

3.9.4.1 Previously Identified AECs (Task II)

The Task II investigation focused on one area of environmental concern: a fill pipe extending from a concrete pad near the center of the NJDOT lot, presumably from a UST. Surface staining was also observed in this area.

Three soil borings were installed downgradient of the fill pipe and suspected UST location to determine whether the storage of product in USTs had adversely impacted soil conditions. The locations of downgradient borings were based on topographic and hydrologic features. The soil borings were installed to a depth of 15 to 18 feet bgs which corresponds to the assumed invert depth of the tanks. One sample was collected from each boring and analyzed for PP+40 and TPHs.

The analytical results of the samples collected are provided in Table 3-15. Only those compounds detected are listed in this table. Sample collection depths and comparison of analytical results to the NJDEP soil cleanup criteria are also provided. Sample locations are provided in Figure 3-10.

SVOCs, PPMs, and phenols were detected in the samples collected. The concentration of all compounds detected in all samples were below the NJDEP soil cleanup criteria.

3.9.4.2 Additionally Identified AECs

Additional AECs were not identified during a review of historical Sanborn maps and aerial photographs.

A review of aerial photographs and Sanborn maps indicate that a gasoline filling station was historically present on site. A fill pipe, extending from the concrete pad near the center of the NJDOT lot, was considered an indication that one or more USTs may still be present on the site.

3.9.5 Implementation of the Remedial Investigation

To confirm the presence of and locate USTs potentially on the property, a geophysical survey was performed. GPR and a magnetometer were used to investigate the area of the fill pipe and the perimeter of the former building. Appendix A contains a method summary of the GPR and magnetometer investigations. Figure 3-10 provides locations for GPR and magnetometer

anomalies. Figure 3-11 is an example of a GPR profile with subsurface features identified. Both figures are located in Appendix B.

Results of the geophysical survey indicate several areas where USTs may still exist. In accordance with the RI Work Plan, an intrusive investigation was conducted using a backhoe, visual observations, and screening instrumentation to identify USTs or areas of potential contamination. Each area identified during the geophysical investigation was excavated to a depth below and a distance beyond that of the anticipated GPR and magnetometer anomaly. Soils removed from the excavation were screened using an HNu photoionization detector (PID) regardless of soil type and color.

3.9.6 Results of the Remedial Investigation

As a result of the geophysical and intrusive investigation, no evidence of USTs was found. It appears that the tanks had been removed in the past. Field screening using the HNu PID did not indicate the presence of contamination, and no visual observations of staining or odors were noted.

Based on this investigation, no further action is recommended for Site 10.

3.10 SITE 11 - DUNDEE DAM, BLOCK 3.17/LOT 1

3.10.1 Property Description

Block 3.17, Lot 1 (Site 11) encompasses the Dundee Canal from Ackerman Avenue to its terminus at the Passaic River. The canal is owned by the Dundee Water and Power Company. This portion of the canal encompasses approximately 3.5 acres (1900 LF).

This section of the canal is bordered by Block 3.14, Lot 34 (vacant lot); Block 3.15, Lot 10 (commercial property); Block 3.16, Lot 2 (industrial property); Block 3.16, Lot 4 (vacant lot); and 3.14, Lot 33 (vacant lot). Wood, tires, metal and miscellaneous debris are presently scattered in and along the canal.

3.10.2 Site History

The Dundee Canal was constructed during the late 1800s and was used for industrial transport in conjunction with railroad lines. The canal is not currently used for any purpose. The site consists of the Dundee Canal from Ackerman Avenue at the south to the Dundee Dam at the north. This review is centered on properties and facilities adjacent to the canal; these properties may have historically impacted the canal by stormwater runoff and effluent discharges.

The following chronological history of the site was compiled from a review of aerial photographs and Sanborn maps.

SECTION 4.0

CONCLUSIONS AND RECOMMENDATIONS

Based on the results obtained from the environmental investigations conducted for the 4M/6J sites, 3 of the 14 sites, Sites 1 and 3, will require the preparation of a Remedial Action Work Plan. No further action is proposed for the remaining 12 sites. A summary of each site is provided below.

Site 1 and Site 3 - Parkstein Company

Based on the level of contaminants present in the upper 2 to 3 feet of soils, potentially at hazardous waste levels, remedial action will be required at this site. WESTON recommends the preparation of a Remedial Action Work Plan and implementation of the NJDEP-approved remedial action. Since this site is not currently owned by the NJDOT, the site owner should proceed with these activities. In addition, site activities should be modified so that the subsurface is not adversely impacted in the future.

Site 2, 9, 11 - Dundee Canal

Since contaminants of concern (PPMs, SVOCs) are present above applicable sediment quality criteria to depths as great as 10 feet bgs, WESTON recommends that the design of the proposed freeway limit, to the extent possible, the need to excavate these sediments. Although contaminants are not present at hazardous waste concentrations, disposal of the sediments as clean fill is not possible. The sediments would most likely be classified as industrial I.D. #27 waste, which will limit the methods of disposal to landfilling, recycling or possibly reuse under the freeway. Since the sediment may not fit NJDOT specifications for embankment material, landfilling and/or recycling are likely. Of concern is the presence of dioxin and associated disposal restrictions that are applied to this parameter.

No further sampling is proposed within the canal, unless required for waste classification purposes prior to sediment removal. Construction design must be finalized prior to this additional sampling.

Site 5 - NJDOT Vacant Lots

No sampling has been performed at this site; however, staining was noted during the Task II investigation. Stained areas sampled during Task II were actually located on adjacent Site 6. Since the results of the recent RI inspection did not identify any areas of concern (i.e., staining, debris, etc.), no further action is proposed for this site. It is important to note that the proposed freeway will extend over much of this site and fill material will be imported.

Site 6 - Conrail Railroad

Sampling of stained soils and fill mounds on this vacant lot during the Task II investigation identified SVOCs in excess of NJDEP soil cleanup criteria. Since this staining was not present during the most recent RI inspection and no additional fill mounds/debris were observed, no sampling was conducted during the RI. Since the proposed freeway will be constructed directly over this area, including the importation of fill, WESTON recommends the implementation of a DER for this site versus remediation.

Site 7 - Chelton Realty Company/McLean Industrial Complex

One sample collected from a stained area during the Task II investigation identified benzo(a)pyrene at a concentration above NJDEP soil cleanup criteria. A site inspection performed during the RI confirmed that this stain, which encompassed approximately 8 square feet, had been covered with gravel and paved. Since this area lies outside of the area to be acquired by NJDOT for construction of the freeway and it has been paved as part of normal site operations, no further action on behalf of NJDOT is recommended.

Site 10 - NJDOT/SBH Realty Association

Since the RI GPR survey and subsequent excavation activities confirmed the absence of USTs at this site and since the Task II sampling did not identify compounds in excess of soil cleanup criteria, no further action is recommended for this site.

Site 12 - NJDOT Vacant Lots

The Task II and RI sampling results indicate that the leaching of SVOCs from a former soil mound located at this site had impacted soils at the site. Due to the limited extent of the affected soils, and the fact that the proposed freeway will be located directly over this location and would include the importation of fill material, no further action is proposed. WESTON recommends the implementation of a DER for the site versus remediation.

Site 13 - Dundee Water and Power Company

PAH compounds have been detected above NJDEP soil cleanup criteria at locations adjacent to two 55-gallon drums and a former roll-off container. Since soils at the site are limited to the upper 1 to 2 feet, below which boulders are present, no further action is recommended for this site. WESTON recommends the implementation of a DER for this site versus remediation. The current site owners should arrange for disposal of the drums in accordance with local, state and federal regulations.

ROY F. WESTON, INC.

APPENDIX B

FIGURES - REMEDIAL INVESTIGATION

WESTON®
MANAGERS DESIGNERS/CONSULTANTS

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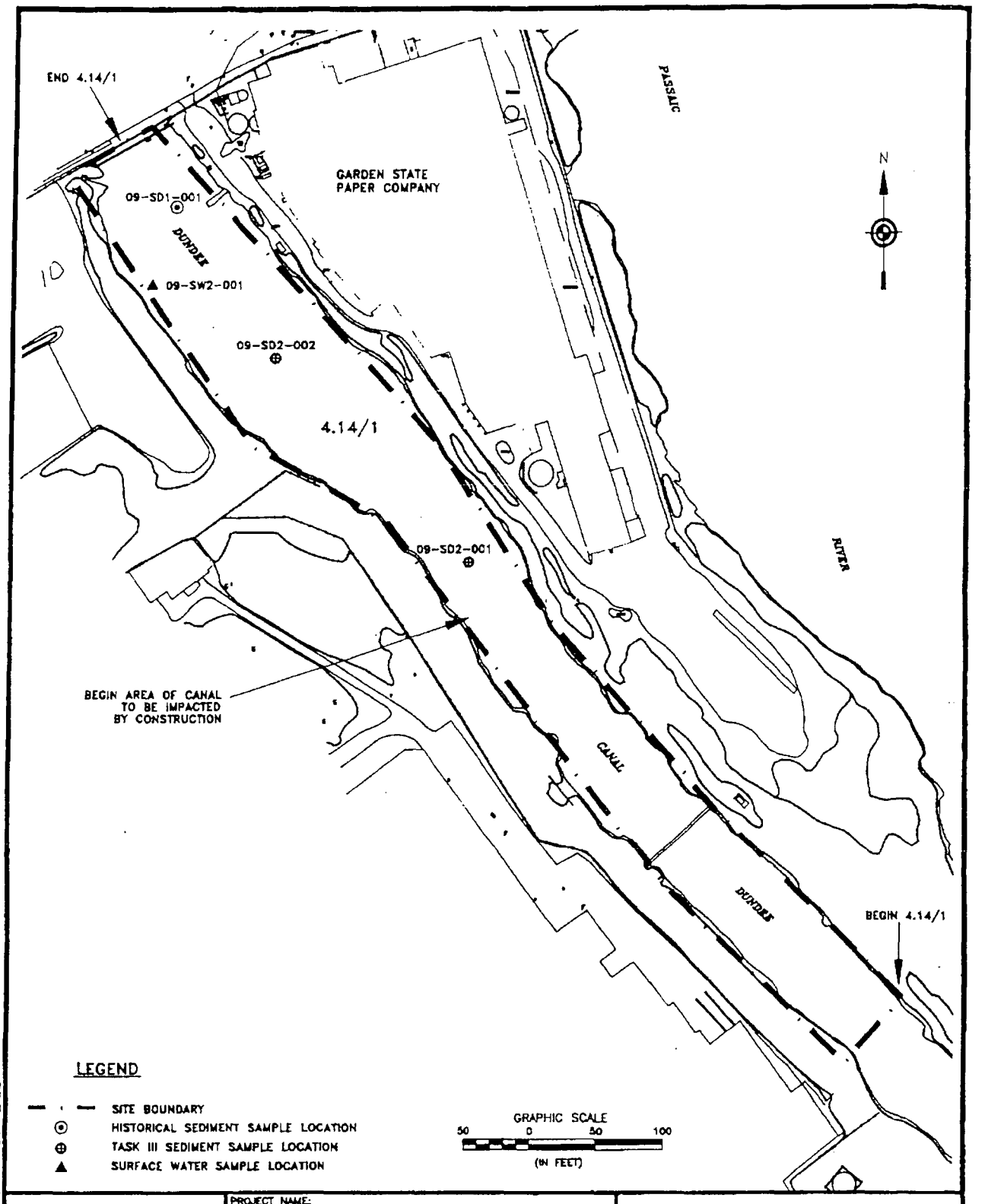
APPENDIX B

FIGURES - REMEDIAL INVESTIGATION



W.O. # 01964-004-006-0015-00 DATE: 9/15/95
FILE NAME: RI_3-7.DWG DRAWN BY: B. MAC

WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME:
REMEDIAL INVESTIGATION
ROUTE 21 FREEWAY
EXTENSION
CLIFTON, NEW JERSEY

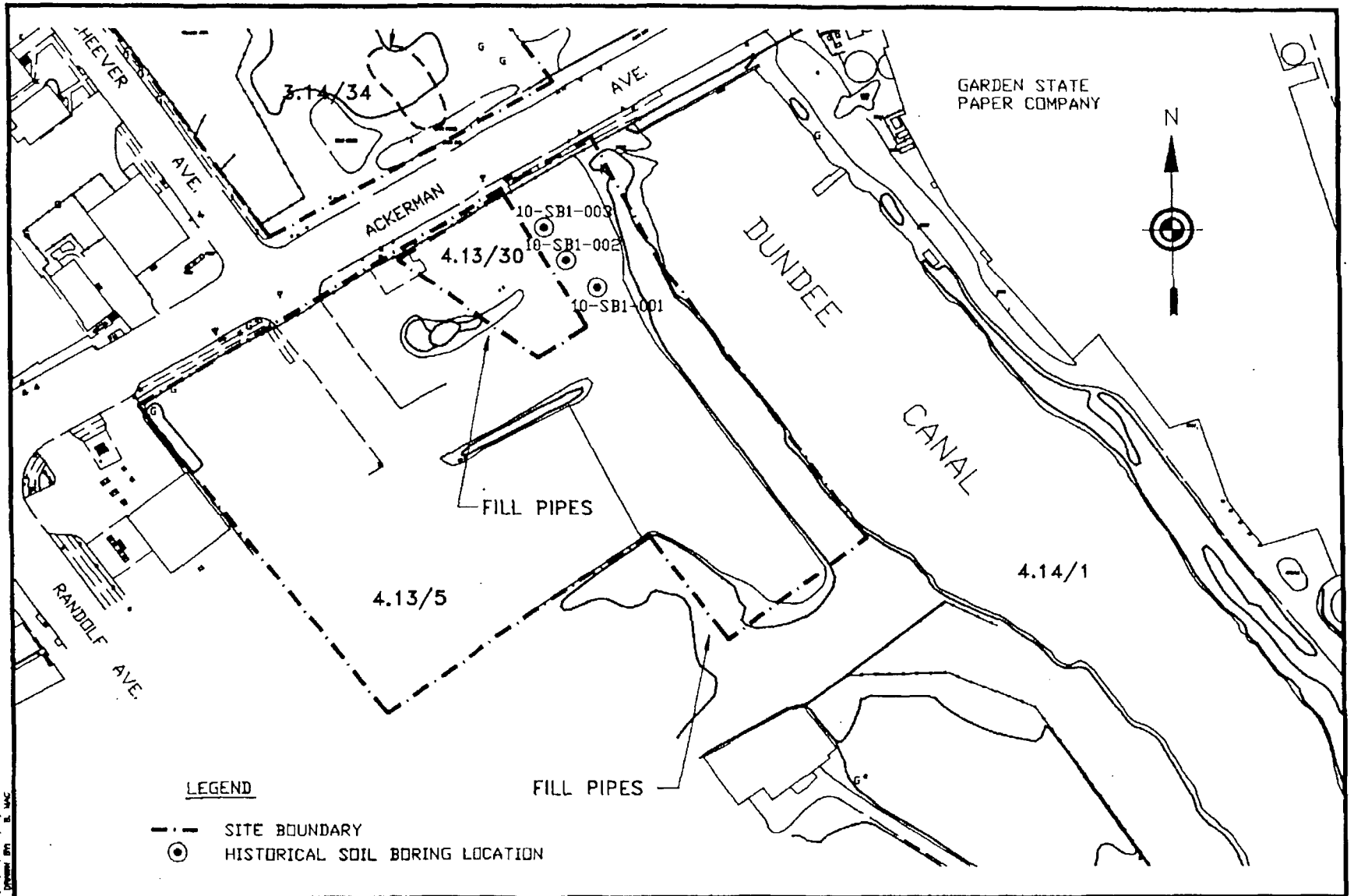
CLIENT NAME: NEW JERSEY
DEPARTMENT OF TRANSPORTATION

SAMPLE LOCATIONS
SITE 9

DATE: 9/15/95

FIGURE #: 3-8

946010623



GRAPHIC SCALE
50 0 50 100
(IN FEET)

WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME: REMEDIAL INVESTIGATION ROUTE 21 FREEWAY EXTENSION
PASSAIC NEW JERSEY
CLIENT NAME: NEW JERSEY DEPARTMENT OF TRASPORTATION

HISTORICAL SAMPLE LOCATIONS SITE 10

DATE: 08/28/95
FIGURE #: 3-9

946010624

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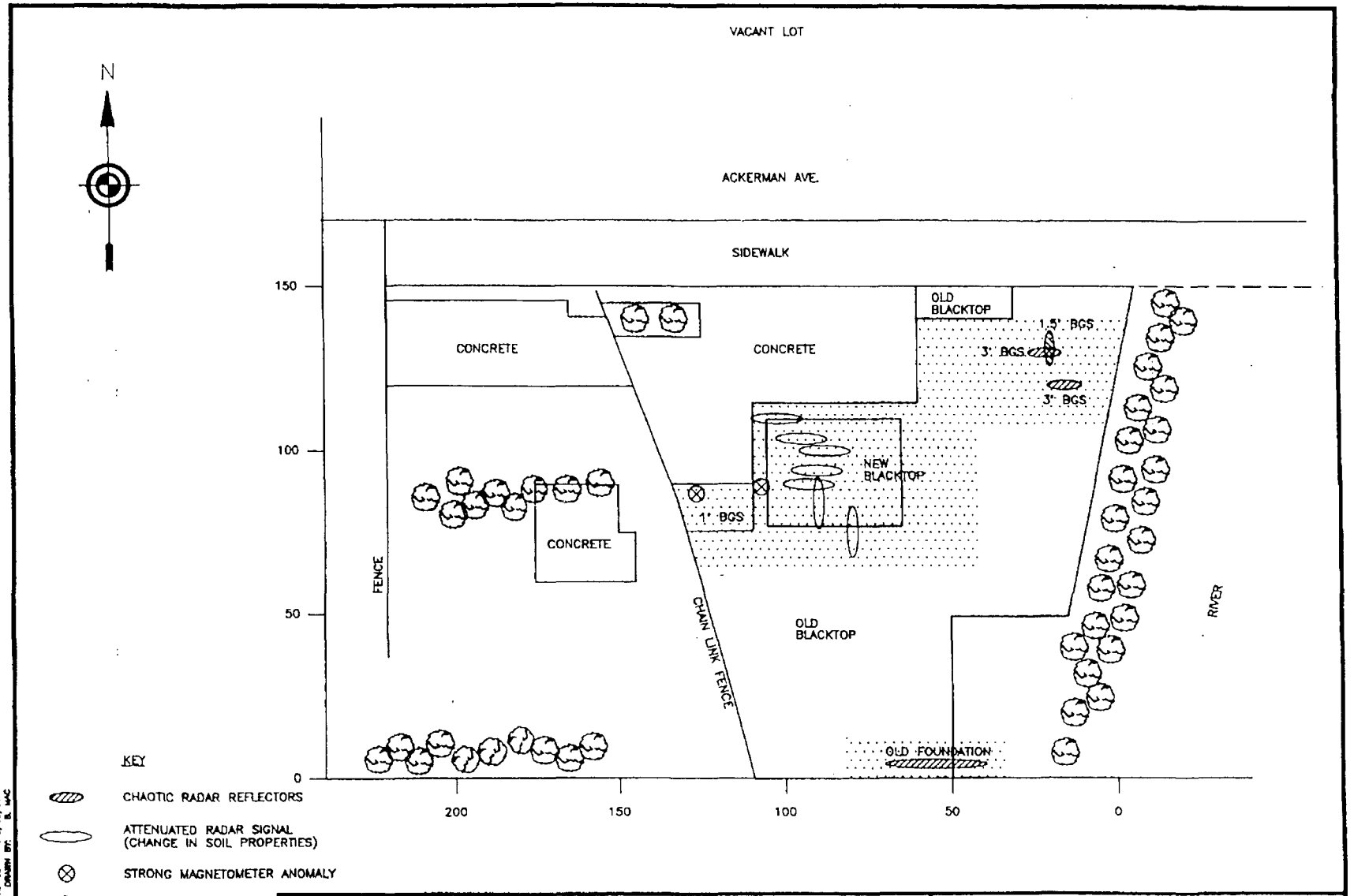

WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME:
REMEDIAL INVESTIGATION
ROUTE 21 FREEWAY
EXTENSION
PASSAIC, NEW JERSEY

CLIENT NAME:
NEW JERSEY
DEPARTMENT OF TRANSPORTATION

GEOPHYSICAL
SURVEY RESULTS
SITE 10

DATE: 9/15/95

FIGURE #: 3-10

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ABK001136

File 41 FILE41 Channel# 1
Created May 16,1995 09:09 Modified Date Unknown
512 samples/scan 25.004 scans/sec 8 bits/sample
Position: 0 nS Range: 100 nS
Vert. IIR low pass N=2 F=45
Vert. IIR high pass N=2 F=8
Horiz. low pass TC=3
Range Gain 2 8 23 32 37
NJDOT RT21 EXTENSION:CLIFTON NJ
#71_77 ACKERMAN AVE
LINE: 80 W 10' intervals
Start: 0 N End: 150 N

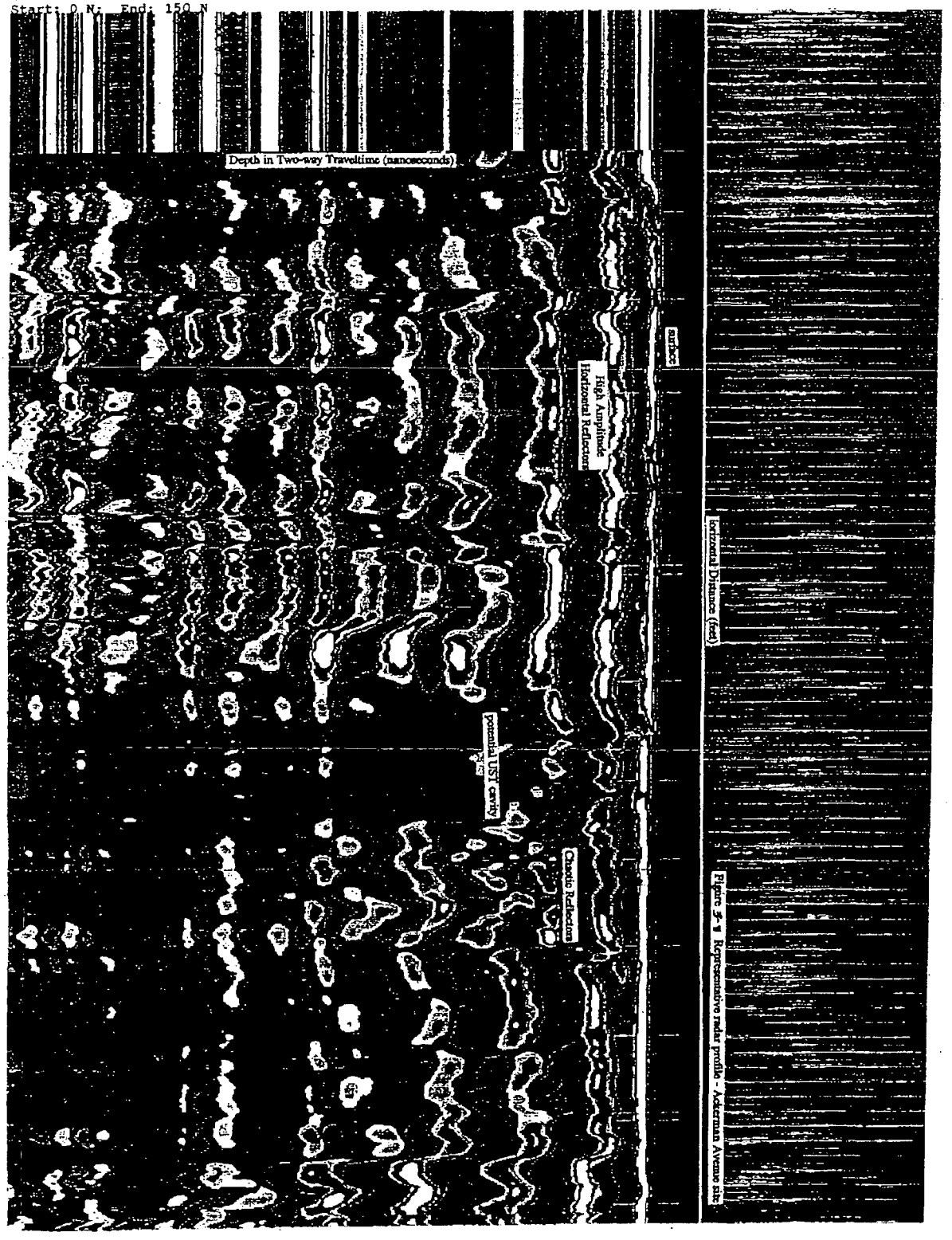

Figure 3-1 Representative radar profile - Ackerman Avenue site

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Table 3-11
Summary of Analytical Results - Task II Investigation
Site 9 - Dundee Canal
Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	07/16/91						NJDEPE Sediment Quality Guidance ER-L	NJDEPE Sediment Quality Guidance ER-M
Depth:	0.0 - 1.0							
Type:	SEDIMENT							
Sample:	09-SD1-001 F						(mg/kg)	(mg/kg)
Parameter								
Volatile Organic Compounds (mg/kg)								
Methylene Chloride	0.055 B						NC	NC
1,2-Dichlorobenzene	0.003 J						NC	NC
Semivolatile Organic Compounds (mg/kg)								
Acenaphthylene	0.15 J						NC	NC
Fluorene	0.1 J						NC	NC
Phenanthrene	0.74 J						0.225	1.38
Anthracene	0.24 J						0.085	0.96
Fluoranthene	1.6						0.6	3.6
Pyrene	2.0						0.35	2.2
Benzo(a)anthracene	1.4						0.23	1.6
Chrysene	1.5						0.4	2.8
bis(2-Ethylhexyl)phthalate	0.67 J						NC	NC
Benzo(b)fluoranthene	1.3						NC	NC
Benzo(k)fluoranthene	1.1						NC	NC
Benzo(a)pyrene	1.3						0.4	2.5
Indeno(1,2,3-cd)pyrene	0.39 J						NC	NC
Benzo(g,h,i)perylene	0.43 J						NC	NC

B - Compound also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEPE for this contaminant.
Shaded Value - Concentration in excess of NJDEPE Soil Cleanup Criteria.

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Table 3-11 (Continued)
Summary of Analytical Results - Task II Investigation
Site 9 - Dundee Canal
Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	07/16/91						NJDEPE Sediment Quality Guidance ER-L	NJDEPE Sediment Quality Guidance ER-M
Depth:	0.0 - 1.0							
Type:	SEDIMENT							
Sample:	09-SD1-001 F						(mg/kg)	(mg/kg)
Parameter								
Petroleum Hydrocarbons (mg/kg)								
Petroleum Hydrocarbon	1700						NC	NC
Pesticides/PCBs (mg/kg)								
Aroclor-1254	0.073 J						NC	NC
Inorganics (mg/kg)								
% Solids	58.5						NC	NC
Phenol (Total)	0.13						NC	NC
Metals (mg/kg)								
Chromium, Total	67.4						NC	NC
Copper, Total	47.9						NC	NC
Mercury, Total	0.35						NC	NC
Lead, Total	170						NC	NC
Zinc, Total	167						NC	NC

B - Compound also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEPE for this contaminant.
Shaded Value - Concentration in excess of NJDEPE Soil Cleanup Criteria.

946010628

Table 3-12
Summary of Analytical Results - Task III Investigation
Sediment
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	NJDEP Sediment Quality Guidance ER-L	NJDEP Sediment Quality Guidance ER-M
Depth:	0.0 - 0.5	4.0 - 4.5	9.5 - 10.0	0.0 - 0.5	4.0 - 4.5	7.5 - 8.0		
Type:	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT		
Sample:	09-SD2-01A F	09-SD2-01B F	09-SD2-01C F	09-SD2-02A F	09-SD2-02B F	09-SD2-02C F	(mg/kg)	(mg/kg)
Parameter								
Semivolatile Compounds (mg/kg)								
1,4-Dichlorobenzene	0.15 J	BDL	BDL	BDL	BDL	BDL	NC	NC
4-Methylphenol	BDL	0.095 J	BDL	BDL	BDL	BDL	NC	NC
Isophorone	BDL	BDL	BDL	BDL	BDL	0.14 J	NC	NC
1,2,4-Trichlorobenzene	0.25 J	BDL	BDL	BDL	BDL	BDL	NC	NC
Naphthalene	0.17 J	0.59 J	0.14 J	BDL	BDL	0.29 J	0.34	2.1
2-Methylnaphthalene	0.18 J	0.49 J	0.12 J	BDL	BDL	0.22 J	0.065	0.67
Acenaphthylene	0.2 J	0.73 J	0.31 J	0.057 J	BDL	0.67 J	NC	NC
Acenaphthene	0.26 J	0.79 J	0.4 J	BDL	BDL	0.19 J	0.15	0.65
Dibenzofuran	0.15 J	0.45 J	0.18 J	BDL	BDL	0.12 J	NC	NC
Fluorene	0.36 J	1.2	0.55	0.057 J	BDL	0.32 J	NC	NC
Phenanthrene	3.8	5.5	5.1	0.48 J	0.15 J	2.8	0.225	1.38
Anthracene	0.7 J	2.1	1.3	0.12 J	BDL	0.56 J	0.085	0.96
Carbazole	0.28 J	0.68 J	0.33 J	BDL	BDL	0.24 J	NC	NC
Di-n-butylphthalate	BDL	0.13 JB	BDL	1.3 B	BDL	0.12 JB	NC	NC
Fluoranthene	5.8	6.5	0.18 J	0.94	0.46	5.1	0.6	3.6
Pyrene	7.8	8.8	7.2	1.1	0.52	7.1	0.35	2.2
Butylbenzylphthalate	BDL	BDL	BDL	BDL	0.058 J	BDL	NC	NC
Benzo(a)anthracene	2.8	3.8	3.5	0.42 J	0.22 J	2.9	0.23	1.6
Chrysene	4.4	5.1	3.4	0.58	0.33 J	4.1	0.4	2.8
bis(2-Ethylhexyl)pnthalate	2.9	0.58 J	0.13 J	1.9	1.9	9.9	NC	NC
Benzo(b)fluoranthene	5.6	4.0	3.4	0.62	0.38 J	4.9	NC	NC
Benzo(k)fluoranthene	0.99	2.1	1.4	0.24 J	0.13 J	1.4	NC	NC
Benzo(a)pyrene	BDL	4.3	2.1	0.44 J	0.25 J	2.7	0.4	2.5
Indeno(1,2,3-cd)pyrene	4.0	5.4	2.8	0.5 J	0.25 J	0.76 J	NC	NC

B - Compound also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEP for this contaminant.
BDL - Compound not detected above the method detection limit.
Shaded Value - Compound detected at a concentration exceeding NJDEP Sediment Quality Guidance ER-L.
NA - Not analyzed.
I - Interference
P - Difference between columns exceeds 25%.

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Table 3-12 (Continued)
Summary of Analytical Results - Task III Investigation
Sediment
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	NJDEP Sediment Quality Guidance ER-L	NJDEP Sediment Quality Guidance ER-M
Depth:	0.0 - 0.5	4.0 - 4.5	9.5 - 10.0	0.0 - 0.5	4.0 - 4.5	7.5 - 8.0		
Type:	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT		
Sample:	09-SD2-01A F	09-SD2-01B F	09-SD2-01C F	09-SD2-02A F	09-SD2-02B F	09-SD2-02C F	(mg/kg)	(mg/kg)
Parameter								
Semivolatile Compounds (mg/kg)								
Dibenzo(a,h)anthracene	BDL	1.3	0.61	BDL	0.055 J	BDL	0.06	0.26
Benzo(g,h,i)perylene	3.2	4.3	2.1	0.37 J	0.23 J	3.1	NC	NC
Inorganics ()								
Percent Solids (%)	35.4	37.1	66.5	55.6	73.5	31.7	NC	NC
Total Organic Carbon (mg/kg)	127000	5000	48700	58400	25400	42200	NC	NC
pH	6.7	6.6	6.6	6.8	6.6	7.0	NC	NC
Dioxins (ppt) ()								
2378-TCDD	26.8	3.3	10.2	1.3	1.2	3.7 69.8	NC	NC
12378-PeCDD	14.2	4.1	11.2	BDL	1.5	NA	NC	NC
123478-HxCDD	20.2	BDL	BDL	6.0	2.2	14.5 NA	NC	NC
123678-HxCDD	89.2	20.5	68.0	15.6	6.8	NA	NC	NC
123789-HxCDD	64.7	13.5	40.5	15.9	6.2	NA	NC	NC
1234678-HpCDD	2020	390	1200	298	118	NA	NC	NC
OCDD	22590	5900	13880	2880	1130 B	NA	NC	NC
2378-TCDF	435	80.5	172	49.5	41.1	NA	NC	NC
12378-PeCDF	29.8	12.7	22.4	9.5	6.1	NA	NC	NC
23478-PeCDF	40.2	10.8	BDL	15.1	10.6	NA	NC	NC
123478-HxCDF	111	46.6	89.7	32.1	16.4	NA	NC	NC
123678-HxCDF	51.8	32.8	63.6	12.5	6.4	NA	NC	NC
234678-HxCDF	83.1	42.3	114	18.0	9.0	NA	NC	NC
123789-HxCDF	1.8	BDL	BDL	1.0	BDL	NA	NC	NC
1234678-HpCDF	650	370	1150	109	53.3	NA	NC	NC

B - Compound also detected in method blank. I - Interference
J - Estimated value. P - Difference between columns exceeds 25%.
NC - No criteria has been proposed by NJDEP for this contaminant.
BDL - Compound not detected above the method detection limit.
Shaded Value - Compound detected at a concentration exceeding NJDEP Sediment Quality Guidance ER-L.
NA - Not analyzed.

946010630

ABK001141

Table 3-12 (Continued)
Summary of Analytical Results - Task III Investigation
Sediment
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	NJDEP Sediment Quality Guidance ER-L	NJDEP Sediment Quality Guidance ER-M
Depth:	0.0 - 0.5	4.0 - 4.5	9.5 - 10.0	0.0 - 0.5	4.0 - 4.5	7.5 - 8.0		
Type:	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT		
Sample:	09-SD2-01A F	09-SD2-01B F	09-SD2-01C F	09-SD2-02A F	09-SD2-02B F	09-SD2-02C F	(mg/kg)	(mg/kg)
Parameter								
Dioxins (ppt) ()								
1234789-HpCDF	48.3	24.3	50.6	10.8	5.0	NA	NC	NC
OCDF	1330	432	1190	196	82.8	NA	NC	NC
Metals (mg/kg)								
Aluminum	11100	18100	9910	7380	5930	15400	NC	NC
Antimony	4.4 B	BDL	BDL	21.1 B	5.7 B	13.4 B	2.0	25.0
Arsenic	17.7 B	19.9 B	10.4 B	8.8 B	3.0 B	14.2 B	33.0	85.0
Barium	272	318	162	118	79.0	318	NC	NC
Beryllium	0.79 B	1.0 B	0.46 B	0.41 B	0.3 B	0.86 B	NC	NC
Cadmium	6.5	6.7	3.0	BDL	1.5	9.3	5.0	9.0
Calcium	4460	4770	3280	2580	2310	7660	NC	NC
Chromium	124	138	70.8	399	214	414	80.0	145
Cobalt	11.2 B	12.8 B	6.7 B	6.7 B	6.9 B	14.7 B	NC	NC
Copper	303	357	169	81.3	80.4	339	70.0	390
Iron	22000	28000	14500	39200	13500	36500	NC	NC
Lead	592	671	354	448	341	821	35.0	110
Magnesium	2400 B	3310	2030	1860	1660	4660	NC	NC
Manganese	559	491	301	321	232	476	NC	NC
Mercury	5.6	3.3	2.3	0.63	0.51	1.7	0.15	1.3
Nickel	49.3	142	21.6	26.6	29.7	53.2	30.0	50.0
Potassium	646 B	1000 B	476 B	592 B	434 B	1070 B	NC	NC
Selenium	6.5 B	7.8 B	3.4 B	4.5 B	2.2 B	6.2 B	NC	NC
Sodium	334 B	472 B	273 B	271 B	196 B	527 B	NC	NC
Thallium	BDL	2.6 B	1.8 B	2.2 B	BDL	BDL	NC	NC

B - Compound also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEP for this contaminant.
BDL - Compound not detected above the method detection limit.
Shaded Value - Compound detected at a concentration exceeding NJDEP Sediment Quality Guidance ER-L.
NA - Not analyzed.
I - Interference
P - Difference between columns exceeds 25%.

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Table 3-12 (Continued)
Summary of Analytical Results - Task III Investigation
Sediment
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	05/23/95	NJDEP Sediment Quality Guidance ER-L	NJDEP Sediment Quality Guidance ER-M
Depth:	0.0 - 0.5	4.0 - 4.5	9.5 - 10.0	0.0 - 0.5	4.0 - 4.5	7.5 - 8.0		
Type:	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT		
Sample:	09-SD2-01A F	09-SD2-01B F	09-SD2-01C F	09-SD2-02A F	09-SD2-02B F	09-SD2-02C F	(mg/kg)	(mg/kg)
Parameter								
Metals (mg/kg)								
Vanadium	112	84.1	37.7	67.8	36.7	69.8	NC	NC
Zinc	805	1070	1210	348	305	1580	120	270

B - Compound also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEP for this contaminant.
BDL - Compound not detected above the method detection limit.
Shaded Value - Compound detected at a concentration exceeding NJDEP Sediment Quality Guidance ER-L.
NA - Not analyzed.
I - Interference
P - Difference between columns exceeds 25%.

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Table 3-13
Summary of Analytical Results - Task III Investigation
Waste Characterization - TCLP Analyses
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date;	05/23/95	05/23/95						NJDEP Waste Classification Level
Type:	SEDIMENT	SEDIMENT						Units*
Sample:	09-SD2-001 F	09-SD2-002 F						(mg/kg)
Parameter								
Inorganic Compounds (ug/kg)								
Percent Solids (%)	37	52						NC
PCBs (mg/kg)								
Aroclor-1248	2.6	2.4						NC
Aroclor-1260	0.44	0.34 J						NC
Total PCBs	3.04	2.74 J						50
TCLP Metals (mg/l)								
Arsenic	0.127	0.0615						5
Barium	0.504	0.618						100
Cadmium	BDL	0.0126						1
Chromium	0.0069	BDL						5
Lead	0.143	0.279						5
Selenium	BDL	0.077						1
Analytical results for TCLP VOC, TCLP SVOC, TCLP pesticides, TCLP herbicides, and cyanide and sulfide reactivity were below detection limits.								

B - Compound also detected in method blank. Units* - All units as indicated.
J - Estimated value.
NC - No criteria has been proposed by NJDEP for this contaminant.
BDL - Compound not detected above the method detection limit.
NA - Not analyzed.
Shaded Value - Compound detected at a concentration exceeding NJDEP TCLP Waste Classification Level.

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Table 3-14
Summary of Analytical Results - Task III Investigation
Surface Water
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	05/23/95							NJDEP FW2-NT Surface Water Standard
Type:	SURFACE WATER							
Sample:	09-SW2-001 F							(ug/l)
Parameter								
Inorganic Compounds (ug/l)								
pH	7.8							NC
Total Dissolved Solids (ug/l)	304000							500000
Total Suspended Solids (ug/l)	5000							40000
Metals (ug/l)								
Aluminum	141 B							200
Barium	22.5 B							2000
Beryllium	0.21 B							NC
Calcium	30300							NC
Cobalt	0.67 B							NC
Copper	2.7 B							NC
Iron	328							NC
Lead	3.9 B							5.0
Magnesium	9790							NC
Manganese	129							NC
Potassium	3870 B							NC
Sodium	38500							NC
Vanadium	2.2 B							NC
Zinc	47.9							NC

B - Compound also detected in method blank.
J - Estimated value.
BDL - Compound not detected above the method detection limti.
NA - Not analyzed.
NC - No criteria has been proposed by NJDEP for this parameter/contaminant.

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Table 3-14 (Continued)
Summary of Analytical Results - Task III Investigation
Surface Water
Site 9 - Dundee Canal, Block 4.14 / Lot 1
Route 21 Freeway Extension

Date:	05/23/95							NJDEP FW2-NT Surface Water Standard
Type:	SURFACE WATER							
Sample:	D9-SW2-001 F							(ug/l)
Parameter								
Total Coliforms (counts/100ml) ()								
Coliforms, Fecal	1600							200
Coliforms, Total	1600							NC

B - Compound also detected in method blank.
J - Estimated value.
BDL - Compound not detected above the method detection limti.
NA - Not analyzed.
NC - No criteria has been proposed by NJDEP for this parameter/contaminant.

946010635

Table 3-15
Summary of Analytical Results - Task II Investigation
Site 10 - NJDOT Vacant Lots
Block 4.13 / Lots 30, 5
Route 21 Freeway Extension

Date:	07/26/91	07/26/91	07/26/91				Non Residential Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria
Type:	SOIL BORING	SOIL BORING	SOIL BORING					
Depth:	14.0 - 15.0	14.0 - 18.0	7.0 - 10.0				3 February 1994	3 February 1994
Sample:	10-SB1-001 F	10-SB1-002 F	10-SB1-003 F				(mg/kg)	(mg/kg)
Parameter								
Volatile Organic Compounds (ug/kg)								
Methylene Chloride	54 B	45 B	47 B				210	1
Semivolatile Organic Compounds (ug/kg)								
Acenaphthylene	130 J	BDL	BDL				NC	NC
Acenaphthene	44 J	BDL	BDL				NC	100
Phenanthrene	400	BDL	BDL				NC	NC
Anthracene	170 J	BDL	BDL				10000	100
Fluoranthene	1100	BDL	60 J				10000	100
Pyrene	940	BDL	49 J				10000	100
Benzo(a)anthracene	570	BDL	38 J				0.9	500
Chrysene	620	BDL	43 J				9	500
Benzo(b)fluoranthene	280 J	BDL	BDL				0.9	50
Benzo(k)fluoranthene	260 J	BDL	BDL				0.9	500
Benzo(a)pyrene	380 J	BDL	BDL				0.66	100
Indeno(1,2,3-cd)pyrene	200 J	BDL	BDL				0.9	500
Dibenzo(a,h)anthracene	88 J	BDL	BDL				0.66	100
Benzo(g,h,i)perylene	240 J	BDL	BDL				NC	NC

B - Compound was also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEPE for this contaminant.
BDL - Compound was not detected above the method detection limit.
Shaded Value - Concentration in excess of NJDEPE Soil Cleanup Criteria.

946010636

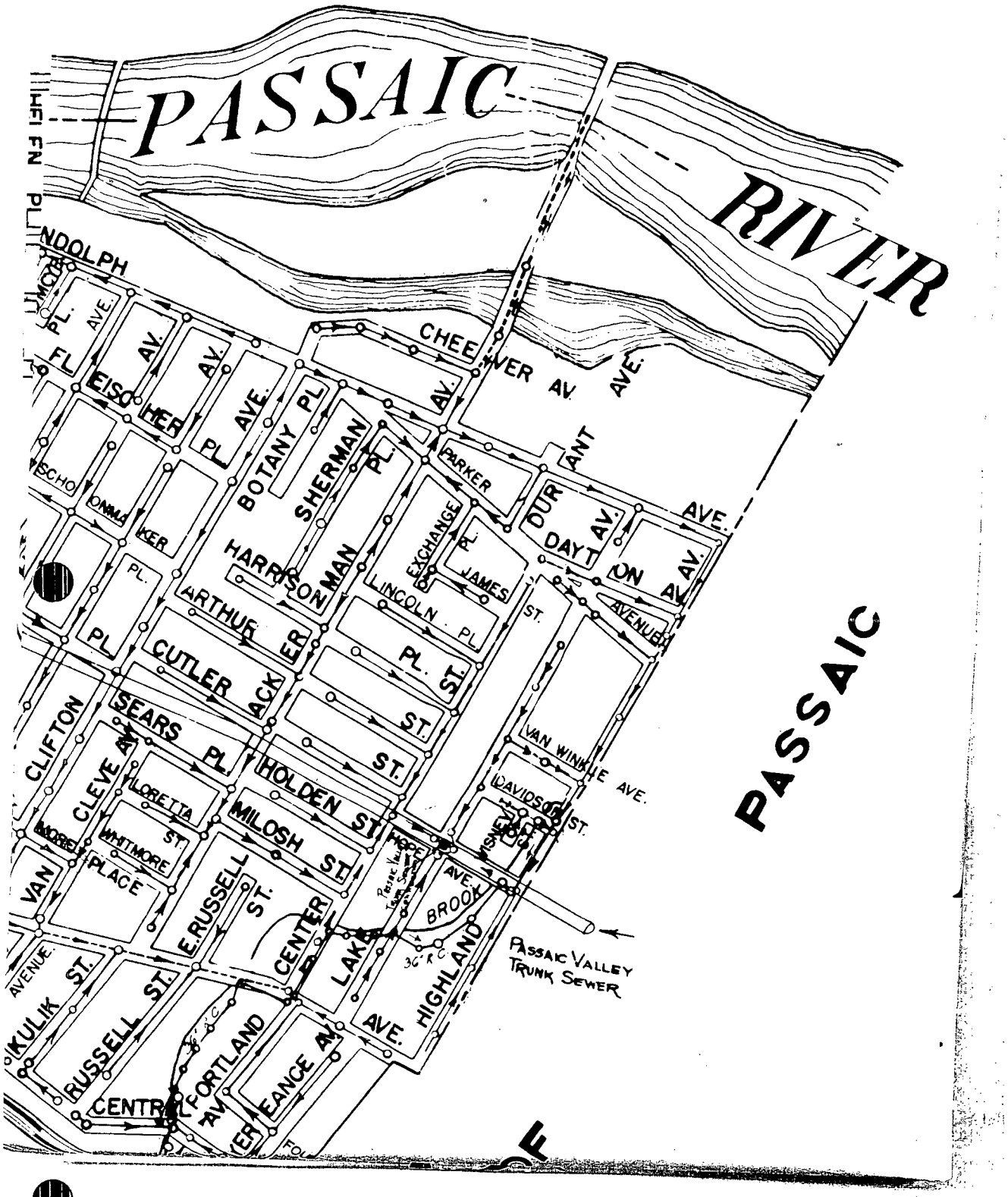
Table 3-15 (Continued)
Summary of Analytical Results - Task II Investigation
Site 10 - NJDOT Vacant Lots
Block 4.13 / Lots 30, 5
Route 21 Freeway Extension

Date:	07/26/91	07/26/91	07/26/91				Non Residential Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria
Type:	SOIL BORING	SOIL BORING	SOIL BORING					
Depth:	14.0 - 15.0	14.0 - 18.0	7.0 - 10.0				3 February 1994 (mg/kg)	3 February 1994 (mg/kg)
Sample:	10-SB1-001 F	10-SB1-002 F	10-SB1-003 F					
Parameter								
Petroleum Hydrocarbons (mg/kg)								
Petroleum Hydrocarbon	220	9.6 B	12.0 B				NC	NC
Pesticides/PCBs (mg/kg)								
Alpha-BHC	0.0015 J	BDL	BDL				NC	NC
Inorganics (mg/kg)								
% Solids	83.0	93.2	91.7				NC	NC
Cyanide, Total	1.5	BDL	BDL				NC	NC
Phenol (Total)	0.074	0.068	0.1				10000	50.0
Metals (mg/kg)								
Arsenic, Total	3.5	BDL	BDL				20.0	NC
Chromium, Total	3.5	2.9	5.3				NC	NC
Copper, Total	14.3	BDL	6.4				600	NC
Lead, Total	45.2	2.1	2.2				600	NC
Zinc, Total	34.3	12.6	24.0				1500	NC

B - Compound was also detected in method blank.
J - Estimated value.
NC - No criteria has been proposed by NJDEPE for this contaminant.
BDL - Compound was not detected above the method detection limit.
Shaded Value - Concentration in excess of NJDEPE Soil Cleanup Criteria.

OF

GARFIELD



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MAP

OF THE CITY OF

CLIFTON N.J

946010640

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'LANNING BOARL

SCALE-1"=400 FEET- MARCH-1945.

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