Document Control No.: 4200-22-AEDP

FINAL
SITE INSPECTION PRIORITIZATION REPORT
COMMERCIAL ENVELOPE MFG. CO., INC.
DEER PARK, NEW YORK

CERCLIS ID No.: NYD981184138

Volume 2 of 2

16 September 1994

Work Order No.: 04200-022-081-0006

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:

ROY F. WESTON, INC.
Raritan Plaza I
4th Floor
Raritan Center
Edison, New Jersey 08837

203019

REFERENCE NO. 19

EA REPORT DEC63A

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

COMMERCIAL ENVELOPE MFG. CO., INC.
TOWN OF BABYLON, SUFFOLK COUNTY
NEW YORK I.D. NO. 152103

Prepared for

Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

Prepared by

EA Science and Technology
R.D. 2, Goshen Turnpike
Middletown, New York 10940

A Division of EA Engineering, Science, and Technology, Inc.

June 1987

CONTENTS

	Page
1. EXECUTIVE SUMMARY	1-1
2. PURPOSE	2-1
3. SCOPE OF WORK	3-1
4. SITE ASSESSMENT	4-1
4.1 Site History	4-1
4.2 Site Topography	4-5
4.3 Site Hydrogeology	4-6
4.4 Site Contamination	4-10
5. NARRATIVE SUMMARY	5-1
6. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS	6-1
6.1 Adequacy of Existing Data	6-1
6.2 Recommendations	6-1
APPENDIX 1	
APPENDIX 2	

1. EXECUTIVE SUMMARY

The Commercial Envelope Mfg. Co., Inc. (CEM) site (New York I.D. No. 152103 and EPA I.D. No. New) is an envelope manufacturing facility located on a 7-acre property approximately 0.5 mi east of the intersection of Commack Road and Grand Boulevard in the Town of Babylon, Suffolk County, New York (Figures 1-1 and 1-2, and Photos 1-16). The site is operated by Mr. Ira B. Kristel, President of CEM. The property is owned by the Town of Babylon's Industrial Development Agency, which financed the purchase of the property for CEM.

The company has operated from 1976 until the present, and reportedly generates chemical wastes such as solvents, ink, and glue. The major sources of industrial wastewater at the facility include a print-wash station, a photographic operation, and miscellaneous wash sinks. Frequent inspections and sampling by the Suffolk County Department of Health Services (SCDHS) identified three areas that contained elevated levels of solvents and heavy metals: (1) three leaching pools, (2) three ink waste storage tanks, and (3) an area adjacent to a trash compactor. It was learned during a search warrant investigation in 1985 that two leaching pools were connected to the photoroom and the printwash station by two underground pipes. An area near these leachpools, where purple-colored water was observed bubbling up through the ground, was also investigated at this time. It was established that the "bubbling-pool" was some sort of pit. At a later date, it was established that this pit was actually a third leaching pool which received wastes through a hole in a pipe which lead to the two other leach pools. This pool was found to contain approximately 1,500 gal of liquid and 31 55-gal drums of sludge. The three ink waste storage tanks, which were found to hold material enroute to the incinerator, were excavated.

Combined, the tanks were found to contain approximately 3,000 gal of liquid and 100 x 55 gal of sludge. The third area of concern, the area adjacent to a trash compactor, was filled with liquid and sludge which "oozed" out of the trash compactor as it compressed trash. A storm drain leach pool in the vicinity was found to be contaminated with solvents and metals. In 1985, following numerous court orders by SCDHS stipulating that the contaminated sites be cleaned up, two of the leaching pools were cleaned and filled with sand. The remaining pool, the ink waste storage tanks, and the storm drain near the trash compactor were cleaned in early 1986 after the company was convicted for unlawful discharge on 30 January 1986.

The preliminary HRS score for this site are as follows:

. The site does not pose a significant fire or explosion threat. Although two monitoring wells were installed and sampled recently for CEM at the site, they are reportedly both located downgradient of the subsurface contaminant source areas. In order to prepare a final HRS score for this site, analytical data regarding the quality of upgradient (ambient) ground water will be necessary. CEM is reportedly in the process of obtaining approval from the SCDHS for an upgradient monitoring well location. Collection and analysis of ground water from all three monitoring wells could then provide confirmation of a release of contaminants from the site to ground water (one purpose of a Phase II study). With such confirmation, . The results of the monitoring well installations and future ground-water sample analyses performed for CEM should be considered and evaluated prior to developing an NYSDEC Phase II investigation. Therefore, at this time a Phase II study by NYSDEC is not recommended.

004

Site Coordinates:

Latitude: 40° 45' 45"
Longitude: 73° 18' 13"

COMMERCIAL ENVELOPE MFG. COMPANY, INC.

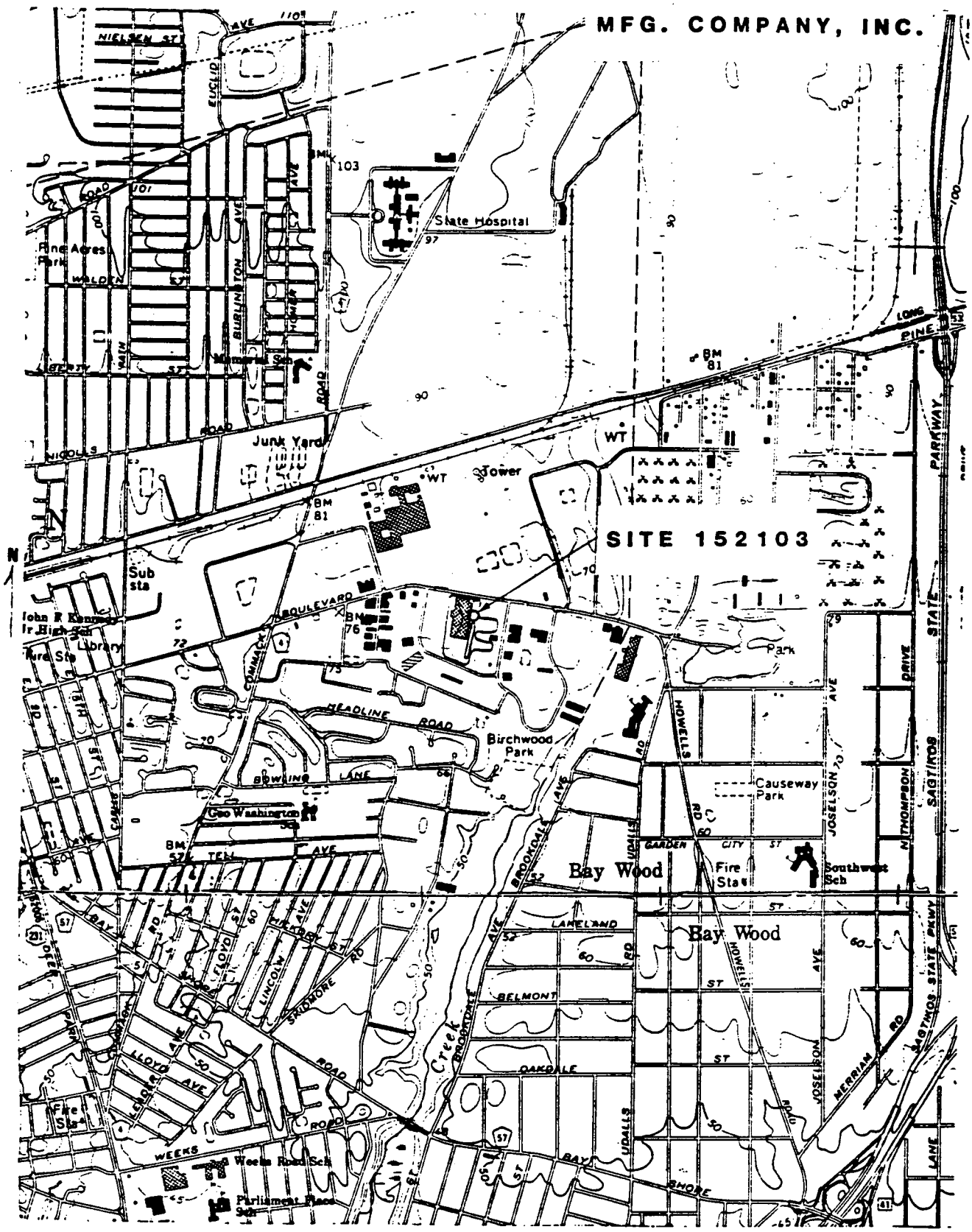
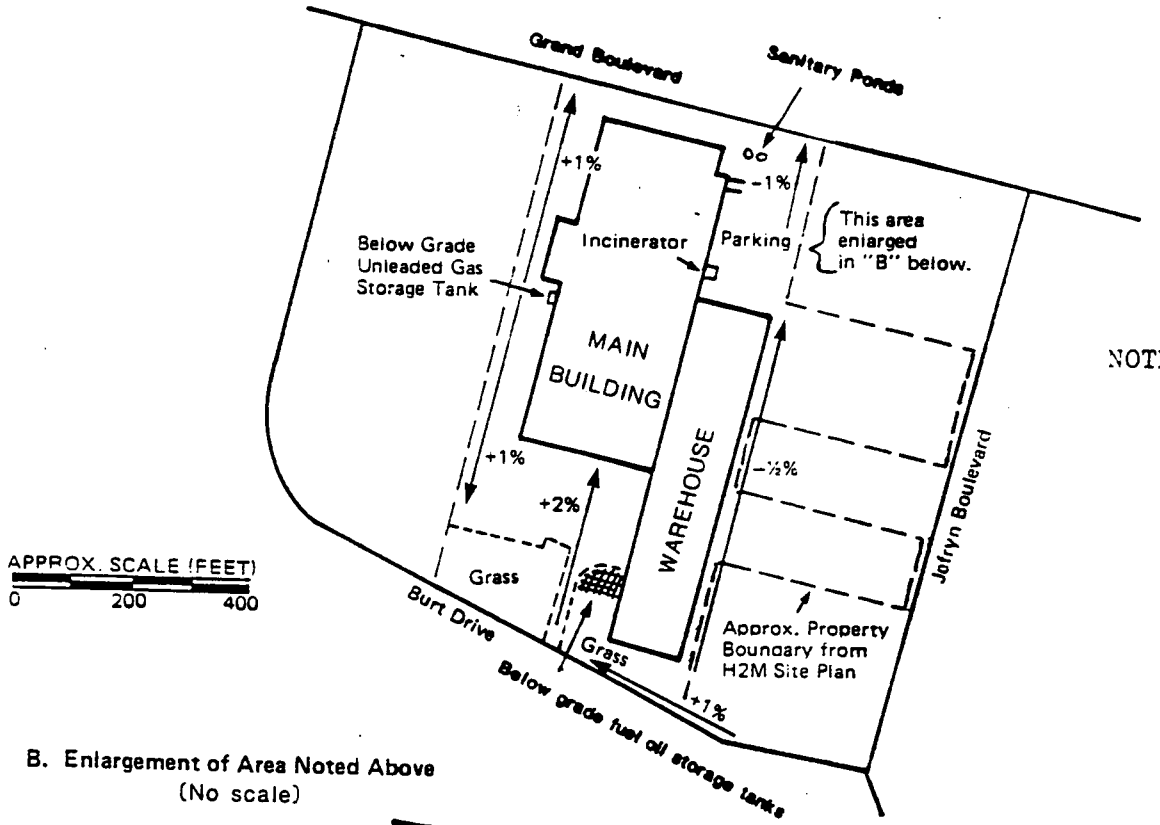


Figure 1-1. GREENLAWN & BAY SHORE WEST QUADS.

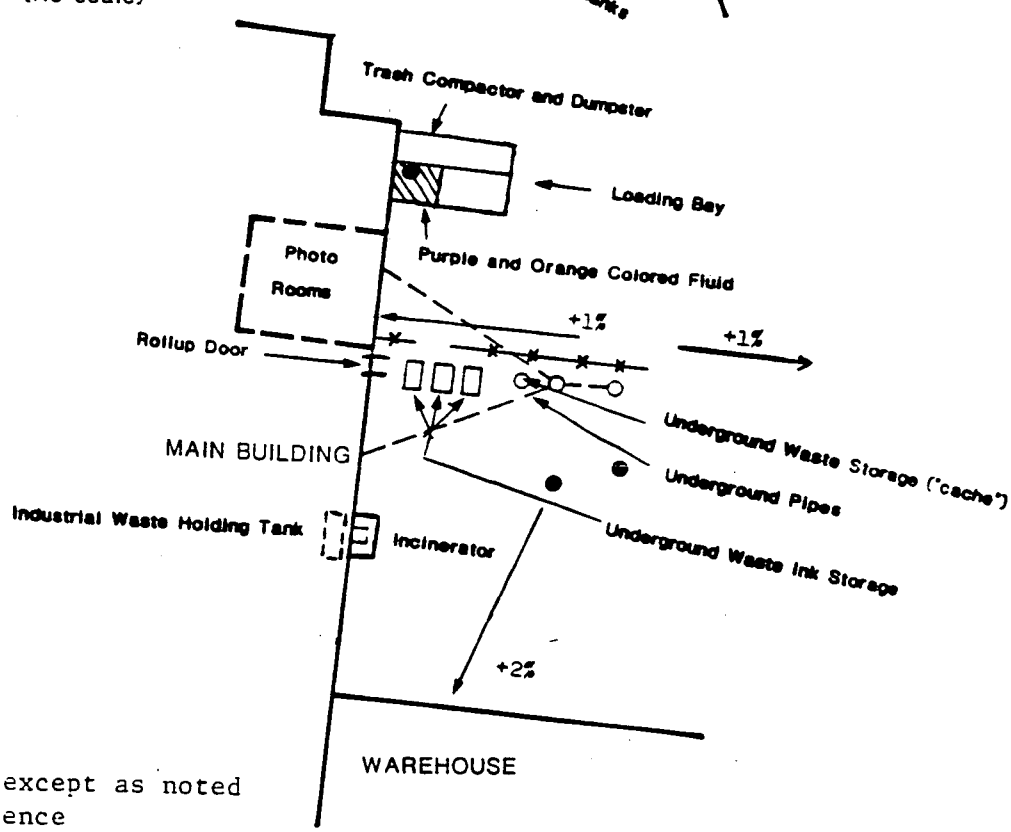
Scale 1:24,000

A.



NOTE: Base map modified from H2 site plan and SCDOP Spring 198 Air Photo No. E640 N4512

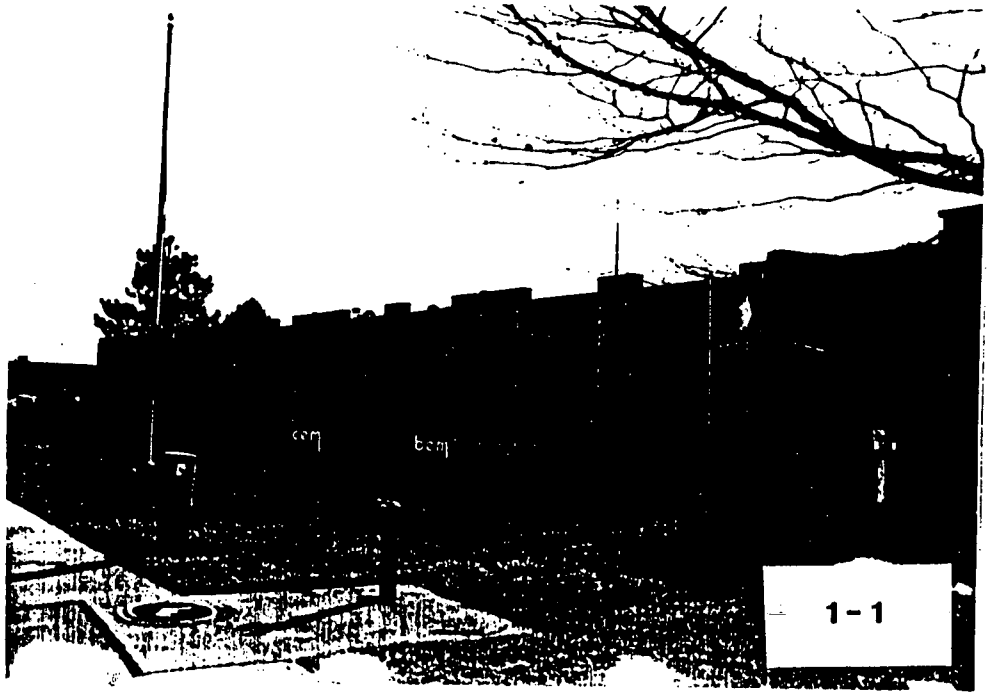
B. Enlargement of Area Noted Above
(No scale)



LEGEND:

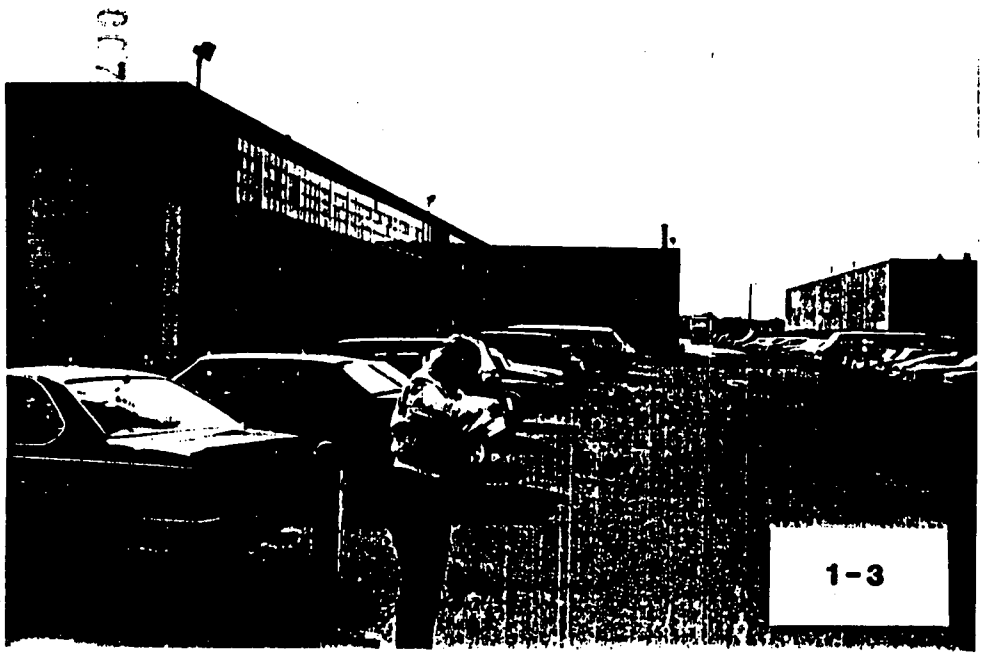
● Storm drain
O Leach pool, except as noted
x-x Chain-link fence

Figure 1-2. Site sketch. Commercial Envelope Manufacturing Co., Inc., 23 January 1986.

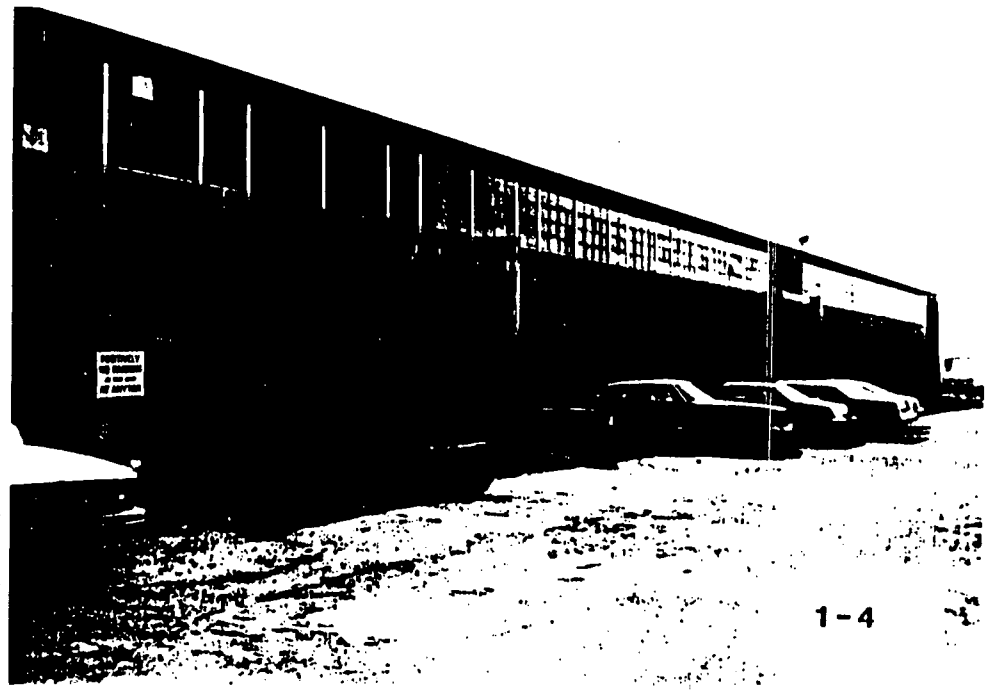


1-1

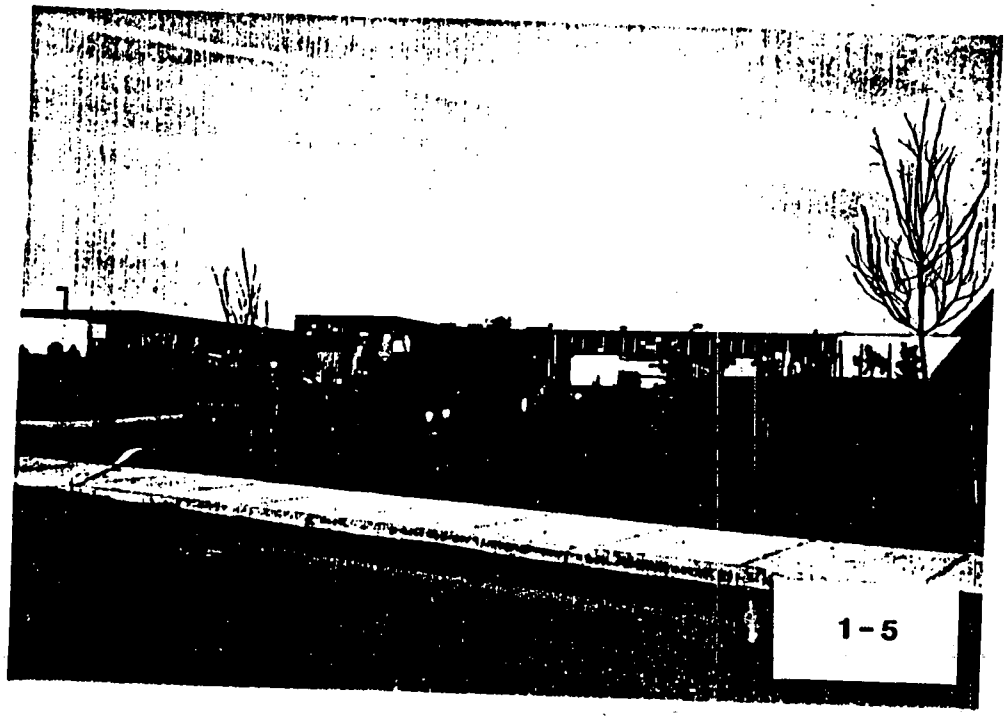
1-2



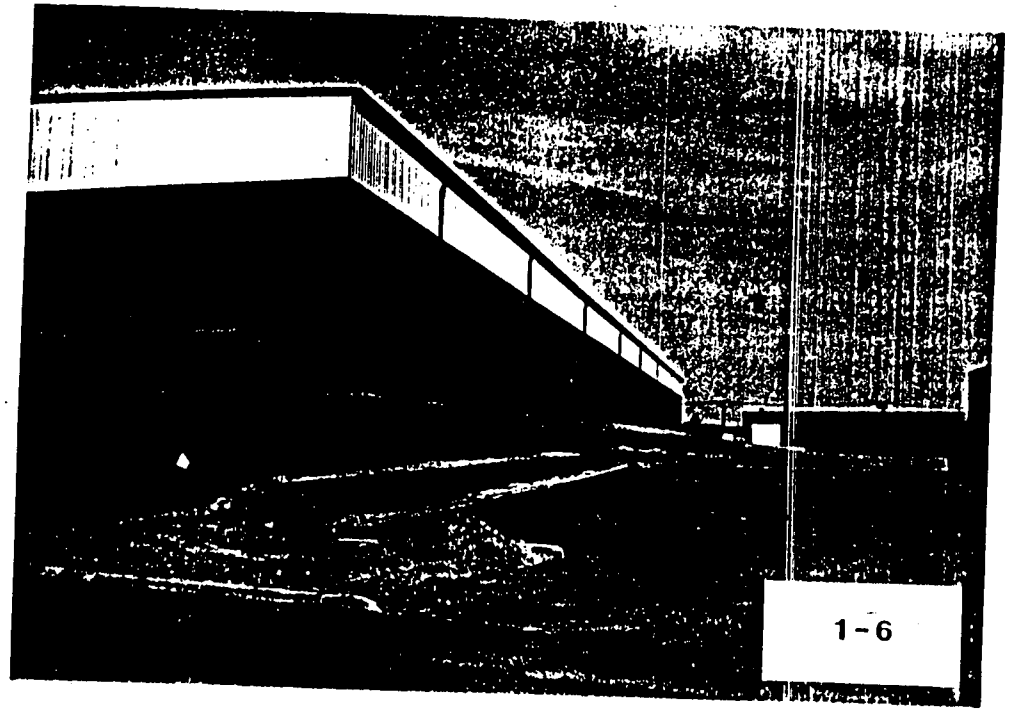
1-3



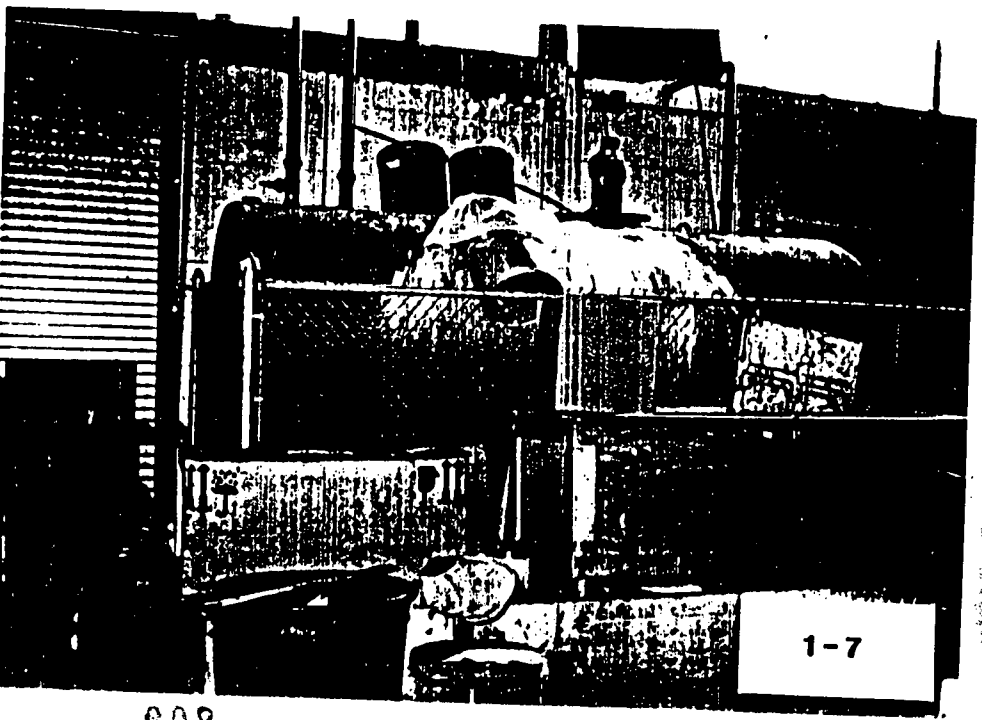
1-4



1-5

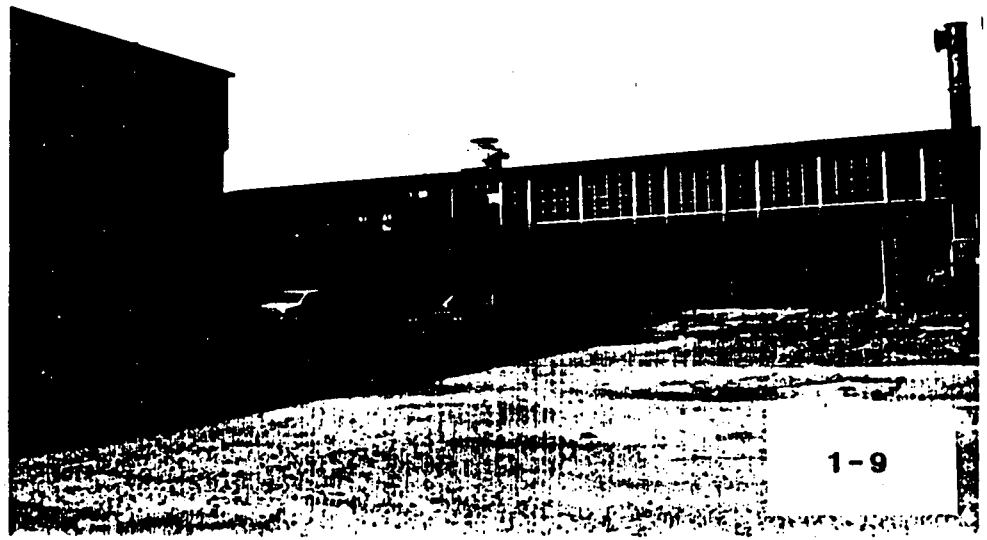


1-6

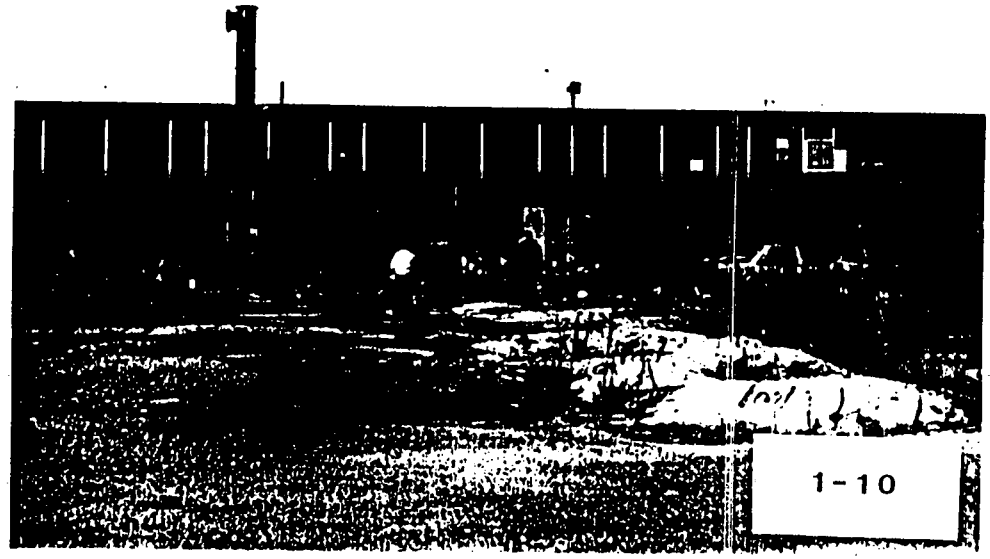


1-7

1-8

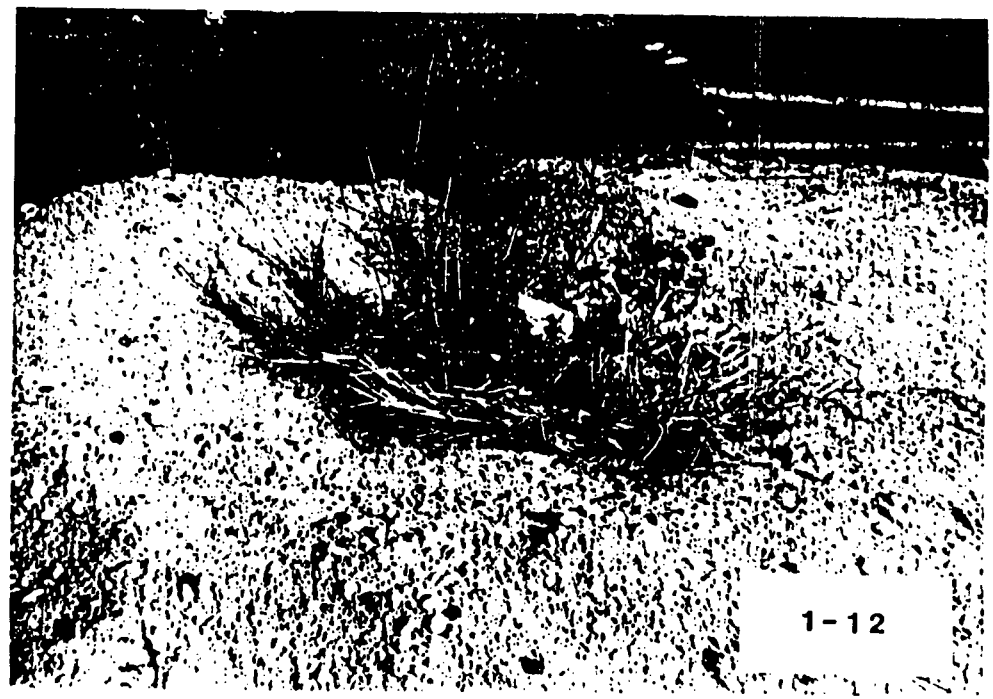


1-9



1-10

1-11

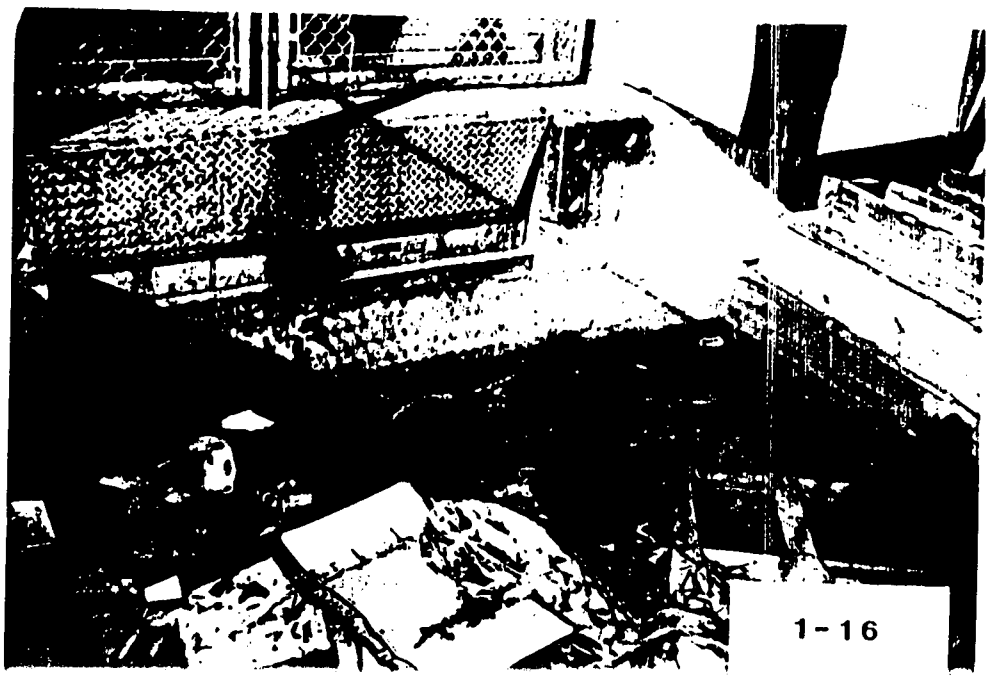


1-12

1-13

1-14

1-15



1-16

PHOTO LOG - COMMERCIAL ENVELOPE MFG. CO., INC.

Photo	Description
1-1	Southeasterly view across the front of Commercial Envelope Mfg. Co., Inc. (CEM) main building.
1-2	Southerly view across the northeast corner of the property including manhole covers of the two sanitary leach pools.
1-3	Southerly view along the northern portion of the west wall of CEM's main building.
1-4	Southerly view along the southern portion of the west wall of CEM's main building. (Note the gasoline dispensing pump near the left edge of the photo).
1-5	Northerly view toward the south side of CEM's main building (note that the grassed hill in the right center of the photo is the location of buried fuel oil storage tanks where a spill was being remediated and pumped into the tank truck in the center of this photo).
1-6	Northerly view along the eastern wall of CEM's warehouse.
1-7	View of the storage tank for CEM's incinerator. Tank is located inside main building adjacent to the incinerator.
1-8	Southwesterly view into the northeastern parking lot where the leach pools, underground storage tanks, incinerator, and dumpster/compactor (center of photo's right edge) are located.
1-9 and 1-10	Westerly view of the northern portion of the eastern wall of CEM's main building (note the incinerator chimney near the center of the field of view). Also, note the dug up area (light colored sand and gravel) near the right side of Photo 1-10 which includes the two leach pools, the underground "cache" and the underground ink waste storage tanks (in order from the lower right area of the photo to the rollup door). Refer to Figure 1-2.
1-11	Detail of a portion of the area shown on Photos 1-9 and 1-10, including the incinerator (left portion of Photo 1-11), and the general vicinity surface area of the underground waste ink storage tanks (central portion of the photo in front of the rollup door).
1-12	Closeup view of the eastern leach pool shown on Photo 1-10 and Figure 1-2 (inset).
1-13	Closeup view of the underground "cache" located just west of the leach pool shown on Photo 1-13 and Figure 1-2 (inset).

PHOTO LOG (Cont.)

1-14 Air quality measurement of pit, later identified as third leachpool, being taken during EA's site reconnaissance.

1-15 Westerly view of the northeast corner of CEM's main building where a dumpster/compactor is located (right center of photo) in a loading bay. Fluids squeezed out of the compacted trash flow into the building-end of the loading bay where there is a storm drain.

1-16 Closeup view of the multicolored fluid observed in the building-end of the loading bay shown in the center of Photo 1-15.

2. PURPOSE

The Commercial Envelope Mfg. Co. Inc., site was listed in the New York State Registry of Inactive Hazardous Wastes Sites because of illegal hazardous waste disposal practices which occurred at the site.

The goal of the Phase I investigation of this site was to: (1) obtain available records on the site history from state, federal, county, and local agencies; (2) obtain information on site topography, geology, local surface water and ground-water use, previous contamination assessments, and local demographics; (3) interview site owners, operators, and other groups or individuals knowledgeable of site operations; (4) conduct a site inspection to observe current conditions; and (5) prepare a Phase I report. The Phase I report includes a preliminary Hazard Ranking Score (HRS) and an assessment of the available information.

013

4. SITE ASSESSMENT - COMMERCIAL ENVELOPE MFG. CO., INC.

4.1 SITE HISTORY

The Commercial Envelope Mfg Co., Inc. (CEM) site is an envelope manufacturing operation located approximately 0.5 mi east of the intersection of Commack Road and the Long Island Railroad on Grand Boulevard in the Town of Deer Park, Suffolk County, New York (Figures 1-1 and 1-2). The property is owned by the Town of Babylon's Industrial Development Agency (IDA). This agency is listed on the deed as the current owner because CEM obtained a loan from the IDA to purchase the property. At present, CEM is repaying the loan. The site is operated by Mr. Ira B. Kristel, President of CEM (Appendixes 1.1-1 through 1.1-4). The envelope manufacturing firm, which has been at the site since approximately 1976, is also involved in printing and photographic operations. From the main building's construction in 1973 until 1976, the site was occupied by Alwin Seal, Inc., a company which produced such items as door frames and steel fencing (Appendixes 1.1-1 and 1.1-5).

The major sources of industrial wastewater at the facility include a printing-wash station, a photographic operation, and miscellaneous wash sinks, all of which are located in the main building (Appendix 1.1-6). A warehouse onsite, built in 1984, is used primarily for the bulk storage of paper with a small area used for job lot printing on "multilith" type machines (Appendix 1.1-7). CEM operations generate various hazardous wastes including solvents, glues, and ink. The company claimed that all such wastes were channeled into a 2,000-gal, above-ground storage tank located along the eastern wall inside the main

building. The wastewaters are then disposed of by high temperature incineration in a liquid waste disposal system located outside the building (Appendix 1.1-6). However, the Suffolk County Department of Health Services (SCDHS) has inspected the site and performed sampling many times since 1981, and has noted three areas where hazardous wastes have been disposed other than by incineration (Appendixes 1.1-3 and 1.1-8 through 1.1-12).

SCDHS personnel observed purple-colored liquid bubbling up through the ground on the east end of the building in October 1984. At that time SCDHS introduced dye in the hand-wash sink and the sump in the photo room. However, the dye did not appear in the inside waste holding tank and was not observed anywhere (Appendixes 1.1-3 and 1.1-11). On 17 June 1985, SCDHS site inspection identified a small pipe in the floor in the vicinity of CEM's "ink pot washer." A site representative comfirmed that this pipe lead beneath the floor, continued east of the building and discharged in the two eastern-most leach pools which had since been purged and backfilled with sand (Appendix 1.1-12). On 9 July 1985, a Special Investigation-Environmmental Crimes Unit from the District Attorney's office presented CEM with a search warrant to locate and dye-test pipes reportedly present in the CEM's main building and which discharged wastewater to leach pools located east of the building (Appendixes 1.1-13 and 1.1-14). Also present were representatives from the SCDHS. Dye-tests were performed along various portions of the pipes (previously plugged in some portions) originating in the "photo room" area (red dye) and the "ink pot wash machine" (green dye). Additionally, the previously purged and backfilled inline leach pool (east of the building) was reopened and excavated 6-7 ft to expose two discharge pipes. Red dye was observed to enter this leach pool through one of the discharge pipes; the green dye was not observed to enter

this leach pool. Because purple fluids had been observed to "bubble up" through the ground (about 6 ft west of the reopened leach pool), a break in the buried pipe line was suspected. Thus, an excavation was begun in that area, and uncovered a void (pit) of unknown total depth containing green- colored liquid and explosive vapors. A 4- to 6-in. diameter white pipe was observed to cross over the pit, and was discharging green-dyed liquid into the pit at a steady rate. A sample was collected from this pit when the explosive vapor concentrations lessened at the surface. Because of elevated explosive vapor concentrations and low percent oxygen measurements in the pit, the pit was not completely exposed; but rather the pit was covered with wood and the remainder of the excavation filled with sand to ground surface. Additionally, during this investigation, purple colored liquid was observed and sampled in the loading dock adjacent to the trash compactor. Analytical results of the sample collected from the pit indicate the presence of a variety of solvents (Appendix 1.1-14). In February 1986, it was determined that the pit was actually a third leach pool. Solid and liquid wastes were entering the pool through a hole in the PVC pipe which had entered the leaching pools east of this pool (Appendix 1.1-3).

The second problem area is a trash compactor situated in a loading dock on the northeast corner of the building. The area adjacent to the compactor has been observed to be filled with liquid and sludge that "oozes" out of the compactor as it compresses trash (Appendixes 1.1-3 and 1.1-14). The "ooze," which flows into a nearby storm drain pool, was found to be contaminated with solvents and metals. An overflow pool from the storm drain pool was identified but found by SCDHS to be clean (Appendix 1.1-3). The contaminated storm drain pool was

pumped out, pressure-washed, and backfilled with cement slurry (Appendixes 1.1-1 and 1.1-3). Later inspections found that the loading dock area adjacent to the compactor was again filled with contaminated liquids which were removed by a liscensed hauler (Appendix 1.1-3).

The third area of concern, located between the leaching pools and the building on the eastern side, is the three underground storage tanks intended to hold material going into the incinerator. Both the three tanks, estimated to hold 3,000 gal each, and the soil surrounding the tanks were found to be contaminated, primarily with metals, although some solvents were found in the ink waste tanks (Appendix 1.1-3).

SCDHS has also sampled two sanitary pools located on the northeast corner of CEM's main building. These pools were found to be clean (Appendix 1.1-3).

SCDHS has repeatedly initiated legal proceedings against CEM in an effort to get the three aforementioned areas cleaned up (Appendixes 1.1-8, 1.1-15, and 1.1-16). As part of one consent order, CEM applied for and received a permit to operate the high temperature incinerator (Appendixes 1.1-7, 1.1-17, and 1.1-18). In the application, it was stated that six wastewater constituents would be disposed of in this manner: lead oxide, silver salts, copper salts, iron salts, particulates, and hydrogen chloride. CEM has also been in violation for having both improper and unpermitted storage areas (Appendix 1.1-19). A SCDHS inspection of 23 September 1985 noted numerous 55-gal drums stored throughout the plant (Appendixes 1.1-20 and 1.1-21).

After several orders to clean up the pools, the two leaching pools directly connected to the "photo-room" and "ink-pot" wash machine were cleaned and filled with sand (Appendix 1.1-14). SCDHS also directed CEM to clean out the pit below the "bubbling-pool" (Appendix 1.1-22). Under a felony conviction in 1986, CEM scavenged and backfilled this pit which happened to be a third leach pool in-line with the pools that were connected to the photo room and ink-pot wash machine (Appendix 1.1-3). In addition, 3,000 gal of liquid and approximately 100 x 55 gal of sludge were removed from the three underground ink waste storage tanks. In April 1986, the three tanks and all influent pipes were filled with cement. At that time, it was also discovered that there was soil contamination along the west side of the excavation (Appendix 1.1-3). CEM has been ordered by SCDHS to remove this contamination.

In addition, it was noted during EA's site inspection, mid-January 1986, that cleaning up a recent fuel oil spill at the CEM facility was in progress. According to SCDHS, an oil distributor had mistakenly pumped 9,300 gal of fuel oil down an observation well on site (Appendix 1.1-23). CEM has since indicated that Slomins, the oil company, has to CEM's knowledge recovered the spilled oil, removed contaminated soil, and backfilled the area with sand (Appendix 1.1-1).

4.2 SITE TOPOGRAPHY

The Commercial Envelope Mfg. Co., Inc. site is located approximately 5 mi inland from Great South Bay on the southern side of Long Island at an elevation of approximately 75-80 ft above mean sea level. The regional slope of terrain is to the south (Figure 1-1). The CEM property itself is largely flat

(Figure 1-2). In the immediate vicinity of the leach pools and underground waste ink storage tank, the ground surface slopes slightly downward at about 1 percent toward the north-northwest.

The CEM facility is located in an industrial area and is adjacent to Grand Boulevard to the north and Burt Drive to the south (Appendix 1.2-1). The nearest commercial establishment is located approximately 125 ft northeast of the site. The nearest residence is approximately 1,500 ft to the south of the site. The nearest surface waterbody is Sampawans Creek and is located approximately 2,500 ft southeast of the site. However, there is no viable overland route to the surface water. The nearest well is a Suffolk County Water Authority well located approximately 0.5 mi to the northeast (Figure 1-2 and EA Site Inspection).

4.3 SITE HYDROGEOLOGY

The site is directly underlain by Pleistocene deposits of glacial outwash. This deposit is then in turn underlain by Cretaceous Age Matawan Group-Magothy Formation (undifferentiated), the Clay member and Lloyd Sand member of the Raritan Formation and finally by Precambrian Age gneiss and schist bedrock (Appendix 1.3-1). The Pleistocene deposits are approximately 180 ft in thickness (ground surface and Appendix 1.3-1) and largely comprised of stratified sand and gravel containing virtually no interstitial clay and silt. The Matawan Group-Magothy Formation (undifferentiated) locally appears to be approximately 700 ft in thickness (Appendix 1.3-1). The upper surface of this deposit is irregular because of considerable erosion during the Tertiary and Pleistocene times. Therefore, accurate prediction of formation thickness

between control points (boreholes) is difficult. This formation is generally composed of "beds and lenses of light-gray fine to coarse sand and silt, intercalated with thin to thick beds and lenses of light- to dark-gray clay, silt, and clayey/silty sand." Thin beds of lignite are commonly found in the clay and silt beds, while disseminated lignite and pyrite are common in the sand beds. Gravelly coarse sand is commonly present in the basal portion of the Magothy Formation, along with abundant interstitial clay and silt and lenses of clay, silt, and clayey/silty sand. The clay and silt beds are often apparently discontinuous lenses and not possible to correlate over significant distances as indicated on the geologic logs (Appendix 1.3-2) for seven nearby deep water supply wells: Wells S-46830 (663-ft total borehole depth) and S-31104 (658-ft total borehole depth) located 1 and 2 mi, respectively, east northeast of the site; Wells 67074 (830-ft total borehole depth) and S-18566T (653-ft total borehole depth) located about 1-1/4 and 3 mi, respectively, southeast of the site; Well S-34030 (563-ft total borehole depth) located about 2-1/2 mi west northwest of the site; Well S-23046 (451-ft total borehole depth) located about 3/4 mi southwest of the site; and Well S-59347 (515-ft total borehole depth) located about 1-3/4 mi south of the site.

The Clay Member of the Raritan Formation is estimated to be 175 ft in thickness (Appendix 1.3-1) and consists mostly of beds/lenses of light- to dark-gray clay, silt, and clayey/silty fine sand and occasional thin to thick sandy lenses of limited lateral extent. Thin beds and desseminated particles of lignite and pyrite are common in the clay portion of this unit. The Lloyd Sand Member of the Raritan Formation is estimated to be 350 ft in thickness (Appendix 1.3-1) and "consists mostly of beds and lenses of light- to

medium-gray sand and gravelly sand, commonly containing small to large amounts of interstitial clay and silt, that are intercalated with beds and lenses of light- to dark-gray clay, silt, and clayey/silty sand."

Water pumped from aquifers underlying Suffolk County is the sole source of water for public supply, agriculture, and industry (Appendix 1.3-3). The upper glacial and Magothy aquifers act as a single hydrological unit and are the only aquifers reportedly developed by wells for water supply within 3 mi of the site. Therefore, both the upper glacial and Magothy aquifers are designated as the aquifer of concern. The Lloyd aquifer, though moderately permeable (165 gpd/ft^2 estimated horizontal permeability at Brookhaven National Laboratory about 25 mi east of the site), has not been developed for water supply because more permeable aquifers are present at shallower depths, and water from the Lloyd commonly has undesireably high concentrations of iron. Additionally, the Lloyd Aquifer is overlain by the extensive, thick, low permeability (confining) Raritan Clay (Appendix 1.3-1). Therefore, the Lloyd Aquifer will not be considered further by this Phase I investigation.

The aquifers of Long Island are hydraulically interconnected and although beds and discontinuous layers of silt and clay within and between aquifers serve to confine water below them, they do not completely prevent the vertical movement of water through and around them. Soren (Appendix 1.3-1) presents data which reflect the high degree of hydraulic interconnection between the upper glacial and Magothy aquifers in the vicinity: (1) for wells completed in the upper glacial and Magothy aquifers in nearby Brentwood or Hauppauge, the head in these two aquifers decrease at a fairly uniform rate with increasing depth, and (2) water-level fluctuation in the same well groups were very similar. Soren

also reports that the estimated downward velocity of water through the Magothy aquifer in the vicinity of the ground-water divide in 1968 (along which the site is located) was 0.006 ft/day (approximately 2.2 ft/year).

Recharge to the upper glacial aquifer is derived entirely from precipitation. Recharge to the Magothy and Lloyd aquifers is derived entirely from the downward movement of water from each overlying aquifer (Appendix 1.3-4). In general, recharge to the lower aquifers occurs near the center of Long Island and discharge occurs along the edge of Long Island to the ocean and Long Island Sound. The average annual precipitation in the area is 46 inches, of which, 24 inches is estimated to infiltrate to the water table (Appendix 1.3-5). The remainder of the precipitation is returned to the atmosphere by evaporation and transpiration, except for a small amount of runoff to streams.

The upper glacial aquifer is the most permeable aquifer on Long Island with an estimated horizontal permeability of 1,000-1,500 gpd/ft^2 (Appendix 1.3-1). The site is located near the center of Long Island in an area of recharge for the underlying aquifers. In 1968, it was estimated in the region that water in the upper glacial aquifer was moving horizontally at rates less than 0.5 ft/day in areas distant from centers of pumping and to hundreds of ft/day near the screens of pumping wells (Appendix 1.3-1). The permeability of the underlying Magothy aquifer ranges widely depending upon the presence and amount of clay and silt. In 1968, it was estimated in the region that water in the Magothy aquifer was moving horizontally at rates less than 0.2 ft/day in areas distance from pumping, and to hundreds of ft/day near screens of pumping wells.

Based upon the March 1985 ground-water table contour map (SCDHS), the depth to ground water is estimated to be approximately 30 ft below ground surface, and the regional ground-water natural (unaffected by pumping) flow direction appears to be toward the south. Within 3 mi of the site, the upper glacial and Magothy aquifer of concern has been developed by 14 Suffolk County Water Authority well fields and one well each for Dix Hills Water District and Brentwood Water District (both are reportedly completed in the Magothy aquifer). The area within 3 mi of the site is served by three aforementioned water companies and a well for the Sam A. Lewison Start Center. Appendix 1.3-6 provides a list of the municipal wells located within 3 mi of the site.

4.4 SITE CONTAMINATION

Waste Types and Quantities

The envelope manufacturing company generated various hazardous chemicals including solvents, ink, and glue. Liquid and solids samples taken by the SCDHS from 1981 to 1985 from the leach pools, the ink waste storage tanks, and the areas surrounding the trash compactor, contained elevated levels of many hazardous chemicals including methylene chloride (180-2,100 ppb), 1,1,1-trichloroethane (4-150 ppb), cis-1,2-dichloroethylene (160 ppb), tetrachloroethylene (11-73 ppb) p-ethyltoluene (15-210 ppb), ethylbenzene (50-81 ppb), n-decane (40-190 ppb), toluene (93-970 ppb), xylene (55-500 ppb), 1,3,5-trimethylbenzene (12-190 ppb), decane (880 ppb), undecane (330 ppb), nonane (180 ppb), copper (0.08-865 mg/liter), iron (5-120 mg/liter), chromium (0.06-37 mg/liter), lead (0.4-166 mg/liter), and nickel (0.6-25 ppm). Sludge

samples taken near the trash compactor contained heavy metals including copper (140 mg/liter), iron (7,700 mg/liter), chromium (24 mg/liter), lead (58 mg/liter), and zinc (170 mg/liter) (Appendixes 1.1-3 and 1.1-9).

Ground Water

CEM's representative, Mr. Steven Cohen, Atty., has indicated that, in connection to a consent order entered into with SCDHS, a ground-water study at the site is being conducted by a consultant retained by CEM. Two monitoring wells (downgradient) have been installed onsite and both have been sampled. According to Mr. Cohen, the results of the sampling do not indicate whether there is any onsite contamination (analytical data was not supplied to EA). Mr. Cohen has also indicated that CEM has proposed to SCDHS the installation of an upgradient monitoring well (Appendix 1.1-1).

Surface Water

No data available.

Soil

A sample collected on 27 February 1986 from the west side of the the excavation of the ink waste storage tanks contained copper (865 ppm), total chromium (37 ppm), nickel (25 ppm), and lead (166 ppm) (Appendix 1.1-3).

024

Air

During EA's site inspection on 23 January 1986, air quality was measured using a photoionization detector (HNU). No measurements above background were found with the exception of the pit later identified as the third leach pool.

COMMERCIAL ENVELOPE MFG. CO., INC.
TOWN OF DEER PARK, SUFFOLK COUNTY

The Commercial Envelope Mfg. Co., Inc. (CEM) site is an envelope manufacturing facility located on a 7-acre property in the Town of Deer Park, Suffolk County, New York. Mr. Ira B. Kristel, president of CEM, operates the site. The Town of Babylon Industrial Development Agency, which financed the purchase of the property for CEM, is the current owner. CEM operated from 1976 until the present. The major sources of industrial wastewater at the facility include a print-wash station, a photographic operation, and miscellaneous wash sinks. Frequent inspections and sampling by the Suffolk County Department of Health Services (SCDHS) have identified three areas that contained elevated levels of solvents and heavy metals: (1) three leach pools, (2) three ink waste storage tanks, and (3) an area adjacent to a trash compactor. In 1985, SCDHS found that two leach pools were connected to the photoroom and the printwash station by underground pipes. It was later established that a third leach pool received wastes through a hole in a pipe which lead to the two other leach pools. This pool was found to contain approximately 1,500 gal of liquid and 31 55-gal drums of sludge. The three ink waste storage tanks, which held material enroute to the incinerator, were excavated and were found to contain approximately 3,000 gal of liquid and 100 x 55 gal of sludge. The area adjacent to a trash compactor was filled with liquid and sludge which "oozed" out of the trash compactor as it compressed trash. A storm drain leach pool in the vicinity was found to be contaminated with solvents and metals. In 1985, following numerous court orders by SCDHS stipulating that the contaminated sites be cleaned up, CEM had two of the leach pools cleaned and filled with sand. The remaining pool, the ink waste storage tanks, and the storm drain near the trash compactor were cleaned in early 1986.

Facility name: Commercial Envelope Mfg. Co., Inc.

Location: Town of Babylon, Suffolk County

EPA Region: II

Person(s) in charge of the facility: Mr. Ira B. Kristel

Grand Boulevard

Deer Park, New York 11729

Name of Reviewer: EA Science and Technology Date: 4 November 1986

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility, contamination route of major concern; types of information needed for rating; agency action, etc.)

The site is an active envelope manufacturing plant with printing and photographic operations which has been located on Grand Boulevard since 1976. Three areas at the site have been associated with hazardous waste disposal. Three leaching pools received printing ink and photo wastes containing mixed heavy metal and solvent wastes. Solvent and lead contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held in 3 below grade storage tanks.

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible, summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Commercial Envelope Mfg. Co., Inc.

LOCATION: Town of Babylon, Suffolk County

DATE SCORED: 4 November 1986

PERSON SCORING: EA Science and Technology

PRIMARY SOURCES(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.)

Suffolk County Department of Health Services
EA Site Inspection, 23 January 1986

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

Observed release to ground water
Air route

COMMENTS OR QUALIFICATIONS:

Ambient ground-water quality data are unavailable. This route is scored based on confirmed contamination in onsite leach pools, storage tanks, and a storm drain pool.

No viable overland route for surface water exists. The local fire marshal does not consider the site to be an imminent fire or explosion threat.

Direct contact score on the basis that the leach pools, the storm drain, and the ink waste storage tanks, as well as the trash compactor area, have been adequately cleaned out and covered.

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Although monitoring wells (downgradient) have reportedly been installed at the site and samples collected and analyzed, there are no samples of ambient (upgradient) ground-water conditions.
References: 1 and 2. Reference: 3.

Rationale for attributing the contaminants to the facility:

***

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

The Pleistocene Age Upper Glacial deposits and the Cretaceous Age Magothy Formation. References: 4, 5, 6, 7, and Section 4.3 of Phase I report.

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (waste table[s]) of the aquifer of concern:

30 ft. References: 8 and 16.

Depth from the ground surface to the lowest point of waste disposal/storage:

Depth of the leaching pool is 18 ft. Reference: 9. Depth to aquifer of concern is 12 ft. Reference: 3.

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

24 inches. Reference: 7. Reference: 3.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Sand and gravel. References: 4, 5, 6, 7, and Section 4.3 of Phase I report.

Permeability associated with soil type:

$>10^{-3}$ cm/sec. Reference: 3.

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquid and sludge. References: 9 and 10.
Reference: 3.

***

030

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined leaching pools, storm drain near compactor, leaking ink waste storage tanks. Reference: 9.

Method with highest score:

All of the above. Reference: 3.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Chloroform, copper, iron, chromium, cadmium, lead, nickel.
References: 9 and 10.

Compound with highest score:

Chloroform, copper, iron, chromium, cadmium, and lead
Reference: 3.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

1,500 gal of liquid and 1,700 gal of sludge were removed from a leaching pool and 3,000 gal of liquids and 5,500 gal of sludge were removed from the ink waste storage tanks. Reference: 9.

031

Basis of estimating and/or computing waste quantity:

Based on the material removed, quantity = 11,700 gal.
Reference: 3.

***

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water with municipal water from alternate sources presently available. References: 12, 13, 14, and 15.
Reference: 3.

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Suffolk County Water Authority well located on Industry Court.
References: 12 and 13.

Distance to above well or building:

Approximately 3,200 ft. Reference: 12.
Reference: 3.

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Community Supplies:	Population:
Suffolk County Water Authority's Patchogue, Babylon, and Bayshore Water Districts	389,443
Brentwood Water District	26,000
Dix Hills Water District	29,415
Sam A. Lewison Start Center	40
	444,898

(Appendix A1.3-6 provides a list and description of wells.)
References: 12-15 and 26-28.

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Approximately 186 acres of land are used for agricultural purposes within a 3-mi radius of the site. However, irrigation wells on agricultural land in Suffolk County are not registered by any regulatory agency, so there are no lists or descriptions of the locations of these wells.

References: 17, 18, 19, 20, and 21.

Total population served by ground water within a 3-mile radius:

444,898. Combined value = 35. Reference: 3.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No data available. Reference: Chapter 3.
Reference: 3.

Rationale for attributing the contaminants to the facility:

***

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Approximately 1 percent. Estimated with Suunto clinometer. Reference: 11, and Figure 1-2 of the Phase I Report.

Name/description of nearest downslope surface water:

Sampawams Creek. Reference: 16.

Average slope of terrain between facility and above-cited surface water body in percent:

0.9 percent slope. Estimated using a Suunto clinometer and from the topographic map. References: 11 and 16.

Is the facility located either totally or partially in surface water?

No. References: 11 and 16.

Is the facility completely surrounded by areas of higher elevation?

No. References: 11 and 16. Reference: 3.

1-Year, 24-Hour Rainfall in Inches

2.5 inches. Reference: 3.

Distance to Nearest Downslope Surface Water

Approximately 2,500 ft. Reference: 16.
Reference: 3.

Physical State of Waste

Liquid and sludge. References: 9 and 10.
Reference: 3.

***

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

All wastes were channeled to the leach pools and storm drains. There is no viable surface water route. Also, the area adjacent to the trash compactor is an old loading dock (enclosed basin). Reference: 11.

Method with highest score:

Intervening terrain precludes runoff from entering surface water.
Assigned value = 0. Reference: 3.

4 WASTE CHARACTERISTICS

Containment is zero. Therefore, waste characteristics are not scored.
Reference: 3.

Toxicity and Persistence

Compound(s) evaluated

Compound with highest score:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Basis of estimating and/or computing waste quantity:

***

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreational. Reference: 22. Reference: 3.

Is there tidal influence?

No. Reference: 16.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None. Reference: 16.

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

None. Reference: 16.

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None. Reference: 23. Reference: 3.

Population Served by Surface Water

Location(s) of water supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static waterbodies) downstream of the hazardous substance and population served by each intake:

None. References: 5, 14, 17, and 18.

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre).

None. The major source of irrigation water in Suffolk County is ground water from wells. Generally, surface water is not utilized for this purpose. Reference: 17 and 18.

Total population served:

Zero. References: 14, 17, and 18. Reference: 3.

Name/description of nearest of above waterbodies:

Distance to above-cited intakes, measured in stream miles.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

During EA's site inspection on 23 January 1986, air quality was measured using a photoionization detector (HNU). No measurements above background were found with the exception of the pit later identified as the third leach pool. EA has researched all agency files and has found no data indicating a release to air (Chapter 3). Reference: 3.

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

***

2 WASTE CHARACTERISTICS

<u>Reactivity and Incompatibility</u>

Most reactive compound:

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No observed incident on record. Reference: Chapter 3.
Reference: 3.

***

2 ACCESSIBILITY

Describe type of barrier(s):

Contaminated areas have been adequately cleaned and filled in.
Reference: 9. Reference: 3.

***

3 CONTAINMENT

Type of containment, if applicable:

The sources of contamination have been removed. Reference: 9.
Reference: 3.

***

4 WASTE CHARACTERISTICS

<u>Toxicity</u>

Compounds evaluated:

Compound with highest score:

***

5 TARGETS

Population Within 1-Mile Radius

15,197. Estimated as 40 percent of the population of North Bay Shore (13,746) and 5 percent of West Islip (1,451).
Reference: 25. Reference: 3.

Distance to Critical Habitat (of Endangered Species)

None. Reference: 23. Reference: 3.

REFERENCES

1. Obrig, D. 1986. Public Health Sanitarian, Suffolk County Department of Health Services. Personal Communication. 6 October. (Appendix 1.4-1.)

2. Cohen, S. 1986. Attorney, Gold and Wachtel. Personal Communications. 12 November. (Appendix 1.1.1.)

3. U.S. Environmental Protection Agency. 1984. Uncontrolled Hazardous Waste Site Ranking System. A Users Manual. (HW-10). Originally published in the 16 July 1982 Federal Register.

4. Soren, J. 1971. Results of Subsurface Exploration in the Mid-Island Area of Western Suffolk County, Long Island. (Appendix 1.3-1.)

5. Jenson, H.M., and J. Soren. 1974. Hydrogeology of Suffolk County, Long Island, New York. (Appendix 1.3-3.)

6. Lubke, E.R. 1964. Hydrogeology of the Huntington-Smithtown Area, Suffolk County, New York. Geological Survey Water-Supply Paper 1669-D. (Appendix 1.3-4.)

7. Pluhowski, E.J. and I.H. Kantrowitz. 1964. Hydrology of the Babylon-Islip Area Suffolk County, New York. Geological Survey Water-Supply Paper 1768. (Appendix 1.3-5.)

8. Suffolk County Department of Health Services (SCDHS). 1985. Contour Map of the Water Table and Location of Observation Wells in Suffolk County, New York.

9. Obrig, D. 1986. Public Health Sanitarian, SCDHS. Personal Communication. 9 April. (Appendix 1.1-3.)

10. SCDHS. Analytical Data of Field Sampling. (Appendix 1.1-9.)

11. EA Site Inspection. 23 January 1986.

12 SCDHS, Water Resources Division. 1985. Supply and Monitoring Well Location Maps.

13. Suffolk County Water Authority. 1985. Distribution System Plates: 3E, 4E, 2E, 2D, 3D, 4D, 3F, 4F, 3C, 4C.

14. New York State Department of Health (NYSDOH). 1982. New York State Atlas of Community Water System Sources. (Appendix 1.5.1-10.)

15. NYSDOH. 1984. Inventory-Community Water Systems. Volumes I and II.

16. U.S. Geological Survey. 1979. 7.5-Minute Series. Greenlawn Quad. (Appendix 1.2-1.)

REFERENCES (Cont.)

17. Letter from A. Connell, District Conservationist, USDA Soil Conservation Service, to Mr. W. Going, EA Science and Technology, Regarding Irrigation in Suffolk County. 13 March 1986. (Appendix 1.5-2.)

18. Fricke, D. 1986. Suffolk County Cooperative Extension Assoiation. Personal Communication. 7 April 1986. (Appendix 1.5-3.)

19. Carey, S. 1986. Ground Water Section, Suffolk County Department of Health Services. Personal Communication. 7 April 1986. (Appendix 1.5-3.)

20. Pica, D. 1986. Water Unit, Region I, NYSDEC. Personal Communication. (Appendix 1.5-4.)

21. Long Island Regional Planning Board. 1982. Land Use in 1981, Quantification and Analysis of Land Use for Nassau and Suffolk Counties. Plate 5. (Appendix 1.5-8.)

22. Guthrie, C. 1986. Regional Fisheries Manager, Region I, NYSDEC. Personal Communication. 17 September 1986. (Appendix 1.5-5.)

23. Ozard, J.W. 1986. Senior Wildlife Biologist. New York State Department of Environmental Conservation Wildlife Resources Center, Significant Habitat Unit. Personal Communication. 26 February 1986. (Appendix 1.5-6.)

24. Hayden, W. 1986. Asst. Fire Inspector, Town of Babylon. Personal Communication. 10 October. (Appendix 1.5-7.)

25. Long Island Regional Planning Board. 1985. Population Survey 1985. Current Population Estimates for Nassau and Suffolk Counties. Hauppauge, Long Island, New York.

26. SCWA. 1985. Active Service Estimates. (Appendix 1.5-9.)

27. Banks, C. 1986. Consulting Engineer, H_2M. Personal Communication. 27 February. (Appendix 1.3-6.)

28. Brando. 1986. Superintendent, Brentwood Water District. Personal Communication. 27 February. (Appendix 1.3-6.)

Environmental Protection Agency
Remedial Response
Washington, DC 20460
July, 1981

Commercial Envelope Mfg. Co., Inc.

EPA

Potential Hazardous Waste Site

Preliminary Assessment

043

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Commercial Envelope Mfg. Co., Inc.	900 Grand Boulevard

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Deer Park	NY	11729	Suffolk		

09 COORDINATES LATITUDE	LONGITUDE
40° 45' 45"	73° 18' 13"

10 DIRECTIONS TO SITE (Starting from nearest public road)

Corner of Jefryn Boulevard and (900) Grand Boulevard, in Deer Park (Town of Babylon) New York.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Commercial Envelope Mfg. Company, Inc.	900 Grand Boulevard

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Deer Park	NY	11729	(516) 242-2500

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 1 23 86 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): EA Science and Technology

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1976 (BEGINNING YEAR) | present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED

Printing ink and photo wastes containing mixed heavy metal and solvent wastes discharged to leaching pools. Solvent and lead-contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held with in below grade tanks. Discharge to a discovered underground "cache" still active,*

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential ground-water contamination problem resulting from several years discharge of printing ink and photo waste containing mixed heavy metal and solvent wastes.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Rebecca Ligotino	EA Science and Technology	914) 692-6706

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
William Going		EA	914) 692-6706	3 25 86 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

*source not yet identified.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
- ☐ B. CORROSIVE
- ☐ C RADIOACTIVE
- ☒ D PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene chloride	74-87-3	TK	180	ppb
SOL	1,1,2 Trichloroethane	79-00-5	TK	33	ppb
SOL	P-ethyltoluene		TK	210	ppb
SOL	Toluene	108-88-3	TK	970	ppb
SOL	Ethylbenzene	100-41-4	TK	52	ppb
SOL	Tetrachloroethylene	127-18-4	TK	11	ppb
SOL	Xylene	1330-20-7	TK	500	ppb
MES	Copper	7440-50-8	TK	0.08	mg/liter
MES	Iron	7439-89-6	TK	5.0	mg/liter
SOL	1,2,4 Trimethylbenzene	95-63-6	TK	430	ppb

V. FEEDSTOCKS (See Appendix for CAS numbers) Unknown

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA site inspection, 23 January 1986.
Suffolk County Department of Health Services file.

EPA FORM 2070-12 (7-81)

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-13
July, 1981

Commercial Envelope Mfg. Co., Inc.

EPA

Potential Hazardous Waste Site

Site Inspection Report

046

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Commercial Envelope Mfg. Co., Inc.	900 Grand Boulevard

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Deer Park	NY	11729	Suffolk		

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
40° 45' 45"	73° 18' 13"	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (Month Day Year)	02 SITE STATUS	03 YEARS OF OPERATION
1 / 23 / 86	☒ ACTIVE ☐ INACTIVE	1976 (Beginning Year) / Present (Ending Year) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ___ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR EA Science & Tech. (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
James Shultz	Senior Geologist	EA	(914) 692-6706

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Rebecca Ligotino	Environmental Scientist	EA	(914) 692-6706
David Obrig	Public Health Sanitarian	SCDHS	(516) 451-4633
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mr. Stephen J. Cohen	Attorney	Gold and Wachtel	(212) 223-3311
		Suite 1401	( )
		780 Third Avenue	( )
		New York, NY 10017	( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	0900	Sunny, windy, (temperature low 30's)

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Rebecca Ligotino	EA Science and Technology	(914) 692-6706

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Rebecca Ligotino		EA	(914)692-6706	11 / 4 / 86 (Month Day Year)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 234

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	144		
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene Chloride	74-87-3	TK	2,100	ppb
SOL	1,1,1 Trichloroethane	71-55-6	TK	150	ppb
SOL	p-Ethyltoluene		TK	210	ppb
SOL	n-Decane		TK	190	ppb
SOL	Toluene	108-88-3	TK	970	ppb
SOL	Xylene	1330-20-6	TK	500	ppb
SOL	1,3,5 Trimethylbenzene	108-67-8	TK	190	ppb
SOL	1,2,4 Trimethylbenzene	95-63-6	TK	430	ppb
SOL	Decane	124-18-5	TK	880	ppb
SOL	Undecane	1120-21-4	TK	330	ppb
SOL	Nonane	111-84-2	TK	180	ppb
MES	Copper	7440-50-8	TK	865	mg/liter
MES	Iron	7439-89-6	Open Dump-Spill	7,700	mg/liter
MES	Zinc	7440-66-6	Open Dump-Spill	170	mg/liter
MES	Lead	7439-92-1	TK	166	mg/liter
MES	Nickel	7440-02-0	TK	25	mg/liter

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection, 23 January 1986
Appendixes 1.1-3 and 1.1-9

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 444,898
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Ground water in the aquifer of concern is the water source for 14 SCWA well fields, 1 Dix Hills Water District well, and 1 Brentwood Water District well, and the Sam A. Lewison Start Center.

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No viable overland route to surface water.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No imminent threat.

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: Unknown (Acres)
02 ☒ OBSERVED (DATE: 2/27/86) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Soil contamination was discovered along the west side of the ink waste storage excavation and contained high concentrations of copper, chromium, nickel, and lead.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 444,898
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Limited to the population served by ground water from the aquifer of concern within a 3-mile radius of the site.

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY
02 SITE NUMBER: New

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None known.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☒ OBSERVED (DATE: 1984-1986) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

The leaching pools were unlined and contained sludge and standing liquid. The contents of the pits were sampled and found to contain various solvents and metals.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☒ OBSERVED (DATE: 1984-1986) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Commercial Envelope was in violation over a period of several years for illegally discharging hazardous chemicals into three leach pools, a storm drain, and three ink waste storage tanks.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 444,898

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection 23 January 1986
Appendixes 1.1-1, 1.1-3, 1.1-4, 1.1-8, and 1.3-1 through 1.3-5

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES N/A				
☐ B. UIC				
☒ C. AIR Operator's Permit for emissions from incinerator				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND	Unknown	
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP (loading	Unknown	
☐ I. OTHER dock area) (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE: 1 (Acres)

07 COMMENTS

The site is a 1-acre parcel located behind the main building and is part of a 7-acre property.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS Leach pools and storage tanks are adequately covered; although there have been observed over flows to ground surface and the area adjacent to the trash compactor was uncovered and not secured, it has since been remediated.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Appendixes 1.1-3, 1.1-4, and 1.1-11
EA Site Inspection, 23 January 1986

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS Unknown

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE
A. ~ 0.6 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 444,898

03 DISTANCE TO NEAREST DRINKING WATER WELL ~ 0.6 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
30 (ft)	S	12 (ft)	Unknown (gpd)	☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Within a 3-mile radius of the site there are 14 SWCA well fields, one Dix Hills Water District well, and 1 Brentwood Water District well. Also, a well at the Sam A. Lewison Start Center.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Sampawams Creek	☐	0.47 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 15,197 NO. OF PERSONS	B. 58,043 NO. OF PERSONS	C. 125,207 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.28 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.02 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is located in an industrialized area which is surrounded by medium and high density residential areas.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: NY | 02 SITE NUMBER: New

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one) Unknown

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
1,400 (ft)	Unknown (ft)	Unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
24 (in)	2.5-3 (in)	~1 %	N/A	0.9 %

09 FLOOD POTENTIAL: SITE IS IN N/A YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi) OTHER: B. 1.3 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: None

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.02 (mi)	B. 0.28 (mi)	C. 0.56 (mi)	D. 0.56 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is located approximately 5 mi inland from Great South Bay at an elevation of approximately 75-80 ft above mean sea level. The CEM property itself is generally flat. The regional slope of terrain is to the south.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

* U.S. Department of the Interior Geological Survey. 1967. Map of Flood-Prone Areas. 7.5-Minute Series. Greenlawn Quad.
Ozard, J. 1986. NYSDEC. Personal Communication. 6 March.
NYSDOH. 1982. New York State Atlas of Community Water System Sources.
SCWA. 1986. Actice Services Estimates.

EA Site Inspection 23 January 1986. Sections 4.2 and 4.3.
USGS. 1979. 7.5-Minute Planimetric Series. Greenlawn Quad.
LIRBP. 1982. Quantification and Analysis of Land Use for Nassau and Suffolk Counties. LIRBP. 1985. Population Survey. 1985: Current Population Estimates for Nassau and Suffolk Counties. Hauppauge, New York.*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. SAMPLES TAKEN None

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Slope	Estimated with Suunto Clinometer
Volatile organics	Photoionization detector (HNU)

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☒ AERIAL

02 IN CUSTODY OF EA Science and Technology
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS EA Science and Technology

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection 23 January 1986.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
Town of Babylon IDA	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
200 E. Sunrise Highway	

05 CITY	06 STATE	07 ZIP CODE
Lindenhurst	NY	11757

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Appendixes 1.1-1 and 1.1-2.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Commercial Envelope Mfg. Co. Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
900 Grand Boulevard	

05 CITY	06 STATE	07 ZIP CODE
Deer Park	NY	11729

08 YEARS OF OPERATION	09 NAME OF OWNER
1976-present	Ira B. Kristel

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
Alwin Seal Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Unknown	

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Appendixes 1.1-1, 1.1-3, and 1.1-5

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☒ D. SPILLED MATERIAL REMOVED — 02 DATE 1985-1986 03 AGENCY SCDHS
04 DESCRIPTION

Contents of leach pools and buried waste ink tanks pumped out and disposed by liscensed contract hauler

01 ☒ E. CONTAMINATED SOIL REMOVED — 02 DATE 1986 03 AGENCY SCDHS
04 DESCRIPTION

Removal requested by Suffolk County Department of Health Services.

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Suffolk County Department of Health Services has repeatedly initiated legal proceedings against Commercial Envelope. The consent orders have stipulated that all contaminated areas be cleaned, observation wells be installed, and a ground-water quality study be initiated. In 1986, the areas were cleaned and the monitoring wells were installed.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Section 3.
Appendixes 1.1-3, 1.1-4, 1.1-8, 1.1-15, and 1.4-1

EPA FORM 2070-13 (7-81)

6. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 ADEQUACY OF EXISTING DATA

The available data are considered insufficient to prepare a final HRS score for the Commercial Envelope Mfg. Co., Inc. site. There is documentation of onsite hazardous waste disposal in underground tanks and leach pools which have reportedly been cleaned out and backfilled with clean sand. Although two monitoring wells were installed recently for CEM at the site, they are reportedly both located downgradient of the aforementioned subsurface contaminant source areas. Therefore, although ground-water samples have reportedly been collected and analyzed by CEM's consultant, there are no samples of ambient (upgradient) ground-water conditions.

6.2 RECOMMENDATIONS

In order to prepare a final HRS score for this site, analytical data regarding the quality of upgradient (ambient) ground water will be necessary. CEM is reportedly in the process of obtaining approval from the SCDHS for an upgradient monitoring well location. Collection and analysis of ground water from all three monitoring wells by CEM's consultant could then provide confirmation of a release of contaminants from the site to ground water (one purpose of a Phase II study). The results of the monitoring well installations and future ground-water sample analyses performed for CEM should be considered and evaluated prior to developing an NYSDEC Phase II investigation. Therefore, at this time a Phase II study by NYSDEC is not recommended.

RECEIVED NOV 14 1986

Appendix 1.1-1

7

GOLD & WACHTEL

10 EAST 53RD STREET
NEW YORK, N.Y. 10022
(212) 223-3311

ROBERT GOLD*
WILLIAM B. WACHTEL
ELLIOT SILVERMAN

LAURENCE P. RABINOWITZ
STEVEN J. COHEN
SHIRLEY FISHBEIN-HASS
JACLYN A. FISCHLER
JOAN C. PROWDA*
SCOTT J. LESSER*

*ALSO MEMBER OF DISTRICT OF COLUMBIA BAR
*ALSO MEMBER OF MASSACHUSETTS BAR
*ALSO MEMBER OF NEW JERSEY BAR

HARRY H. WACHTEL
OF COUNSEL

TELECOPIER
(212) 371-0320
TELEX
6973190

WASHINGTON OFFICE
SUITE 460
INTERNATIONAL SQUARE
1875 EYE STREET, N.W.
WASHINGTON, D.C. 20006
(202) 293-7100

November 12, 1986

Ms. Rebecca Ligotino
EA Science and Technology
R.D.2, Box 91
Goshen Turnpike
Middletown, New York 10940

Re: Commercial Envelope Manufacturing Co., Inc. ("CEM")
I.D. Number 152103

Dear Ms. Ligotino:

As you know, we are the attorneys for CEM. This letter shall serve as the formal revision to the Interview Acknowledgement Form ("IAF"), dated January 23, 1986, which must be included in your Phase I report to the New York State Department of Environmental Conservation.

Page One of IAF

CEM took possession of the property at 900 Grand Boulevard, Deer Park, New York in 1976, but the property is owned by the Town of Babylon. CEM is owned by the Kristel family.

The three below-grade ink waste holding tanks were properly abandoned pursuant to Article 12 of the Suffolk County Sanitary Code. The waste from the tanks was removed and the tanks were filled with concrete. A copy of the SCDHS report confirming the proper abandonment of the tanks, dated April 4, 1986, is enclosed herewith.

We are unaware of the basis for your statement in the last sentence on Page one of the IAF.

Page Two of IAF

There are no groundwater discharges at the site other than sanitary septic tank wastes at this time. A groundwater study is currently being conducted by the groundwater consultants we retained in connection with the consent order entered into between CEM and SCDHS. Two monitoring wells have been installed on site and the wells have been sampled. The results do not indicate whether there is any on-site contamination. Accordingly, we proposed to the SCDHS the installation of a third well at an upgradient location off-site. We are awaiting the response of the SCDHS to this proposal.

All of the drums stored on site have been placed in containment areas in accordance with Article 12 of the Suffolk County Sanitary Code. The SCDHS has inspected the storage/containment facility and has verified the Article 12 compliance by CEM.

The waste from the two leaching pools and the "cache" was pumped out, cleaned up and filled to grade with clean sand in accordance with the consent order.

With respect to the fuel oil spill referred to in the fourth paragraph, Slomins, the oil company, has to our knowledge recovered the spilled oil, removed the contaminated soil and backfilled the area with sand.

The incinerator on site is operating under a permit issued by the proper regulatory authorities.

Very truly yours,

Steven Cohen

Steven J. Cohen

SJC/hp
Encl.
cc: Mr. Ira B. Kristel
Mr. Nicholas Andrianas

Revisions (please write in corrections to above transcript):

_____

_____

_____

_____

_____

Signature: _____ Date: _____

_____

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE ___ OF 1
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT	TEL.
PLANT ADDRESS	900 Grand Blvd.	VILLAGE Deer Park TOWN Bab. NY.	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG. PERIODIC RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
4/4/86	1:00 pm						

(1) The three underground ink waste tanks located on the East side of Commercial Envelope Mfg Corp. have been properly "abandoned" in accordance with SCSC Art. 12.

DAVID GRIG PHS.

063

19-234. 9/84

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Commercial Envelope, Inc.

I.D. Number: 152103

Person Contacted: Mr. Steven J. Cohen

Date: 23 January 1986

Title: Attorney

Affiliation: Gold and Wachtel

Phone No.: (212) 223-3311

Address: Suite 1401
780 Third Avenue
New York, New York 10017

Persons Making Contact:
EA Representatives:

Shultz/Ligotino

Type of Contact: In Person

Interview Summary:

Commercial Envelope Mfg. Co., Inc. purchased the property at 900 Grand Boulevard, Deer Park, New York in 1976. The company, owned by Steven Crystal, manufactures envelopes and uses several potentially hazardous substances including solvents, glues, and ink. All liquid wastes are channeled through a 2,000-gallon holding tank inside the plant, and then incinerated on site. The property has been under close scrutiny by the Suffolk County Department of Health Services (SCDHS), and a dye test performed indicated that the system was not fully connected as the dye eventually migrated to the leaching pools. As a result, the SCDHS issued a Consent Order to clean up the site, install three monitoring wells, and bring the industrial waste holding tank and incinerator on site into compliance with applicable state regulations.

There are four problem areas that the SCDHS has identified on site. There are two leaching pools east of the building that are connected via two pipes to the "pot-wash" area and "photo-rooms" inside the building. The connection between the leaching pools and the "photo-room" was apparently plugged at one time, but was found to be leaking during a SCDHS inspection. These leaching pools were scavenged and filled in with sand. The second problem area is a trash compactor situated on a loading dock on the northeast corner of the building. The compactor compresses trash, and the resulting "ooze" flows into the loading dock storm drain. The SCDHS believes this "ooze" has been solvent and lead contaminated. The storm drain was scavenged and cleaned up. The sludge was pumped out, and then the area was pressure-washed several times. The pool was filled with a cement slurry. The consulting firm of H2M assisted in this clean up. A second overflow pool to the storm drain was identified, but found by SCDHS to be clean. A third area of concern is the three below grade ink waste holding tanks, intended to hold material going into the incinerator. These three tanks are assumed by SCDHS to be steel with a cement collar and a manhole cover. The tanks probably hold 3,000+ gallons each, and are interconnected. The waste in these tanks was not removed, however, the tanks have been backfilled in by Commercial Envelope with sand. When they were originally pumped out, the liquid was discharged into a field forming a "purple lake."

The fourth potential problem was identified by the SCDHS, during a July 1985 inspection, when they observed liquid leaking from a broken pipe into a 6- to 8-ft deep hole. A sample to be analyzed for metals and organics was collected by SCDHS and the hole was closed. However, during EA's site reconnaissance, a small diameter hole to the surface was observed. The pipe suspected to be leaking to this area is from the "pot wash" area and has been cut and cemented in.

There are numerous 55-gallon drums stored on site and throughout the plant. These drums hold glues and ink, and will eventually be poured into a 2,000-gallon holding tank inside the plant. Wastes are discharged from the tank to the incinerator and burned. The SCDHS has ordered that the drums be stored in two areas rather than throughout the plant.

The bathrooms on the site are connected to sanitary pools, and SCDHS inspection found the pools to be clean.

Mr. Cohen did not know if the underground ink waste storage tanks, the underground waste storage "cache", and the two leach pools located immediately east of the "cache" were installed by the previous occupant or by Commercial Envelope. However, the storm drain and associated leach pools were apparently installed prior to Commercial Envelope's purchase of the property in 1976. There are two 10,000-gallon, underground storage tanks on site; one containing gasoline and the other fuel oil. In mid-January 1986, there was a fuel oil spill when an oil distributor pumped too much fuel into one of the tanks.

Commercial Envelope Mfg. Co., Inc. has filled in most of the problem areas with sand in efforts to clean up the site. The three monitoring wells are proposed by Commercial Envelope to be installed to first water. There has been no testing of the incinerator smokestack as air monitoring was not ordered by the SCDHS.

The previous occupant at the facility was Alvin Seal, Inc., whose product line included items such as door frames and steel fencing. It is unknown if the manufacture or assembly of products occurred on site.

<u>Acknowledgement</u>:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Appendix 1.1-3

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Commercial Envelope, Inc.

I.D. Number: 152103

Person Contacted: Mr. Dave Obrig

Date: 23 January 1986

Title: Public Health Sanitarian

Affiliation: Suffolk County Department of Health Services

Phone No.: (516) 451-4633

Address: 15 Horseblock Road
Farmingville, New York 11738

Persons Making Contact:
EA Representatives:

Shultz/Ligotino

Type of Contact: In Person

Interview Summary:

Commercial Envelope Mfg. Co., Inc. purchased the property at 900 Grand Boulevard, Deer Park, New York in 1976. The company, owned by Steven Crystal, manufactures envelopes and uses several potentially hazardous substances including solvents, glues, and ink. All liquid wastes are channeled through a 2,000-gallon holding tank inside the plant, and then incinerated on site. The property has been under close scrutiny by the Suffolk County Department of Health Services (SCDHS), and a dye test performed indicated that the system was not fully connected as the dye eventually migrated to the leaching pools. As a result, the SCDHS issued a Consent Order to clean up the site, install three monitoring wells, and bring the industrial waste holding tank and incinerator on site into compliance with applicable state regulations.

There are four problem areas that the SCDHS has identified on site. There are two leaching pools east of the building that are connected via two pipes to the "pot-wash" area and "photo-rooms" inside the building. The connection between the leaching pools and the "photo-room" was apparently plugged at one time, but was found to be leaking during a SCDHS inspection. These leaching pools were scavenged and filled in with sand. The second problem area is a trash compactor situated on a loading dock on the northeast corner of the building. The compactor compresses trash, and the resulting "ooze" flows into the loading dock storm drain. The SCDHS believes this "ooze" has been solvent and lead contaminated. The storm drain was scavenged and cleaned up. The sludge was pumped out, and then the area was pressure-washed several times. The pool was filled with a cement slurry. The consulting firm of H2M assisted in this clean up. A second overflow pool to the storm drain was identified, but found by SCDHS to be clean. A third area of concern is the three below grade ink waste holding tanks, intended to hold material going into the incinerator. These three tanks are assumed by SCDHS to be steel with a cement collar and a manhole cover. The tanks probably hold 3,000+ gallons each, and are interconnected. The waste in these tanks was not removed, however, the tanks have been backfilled in by Commercial Envelope with sand. When they were originally pumped out, the liquid was discharged into a field forming a "purple lake."

The fourth potential problem was identified by the SCDHS, during a July 1985 inspection, when they observed liquid leaking from a broken pipe into a 6- to 8-ft deep hole. A sample to be analyzed for metals and organics was collected by SCDHS and the hole was closed. However, during EA's site reconnaissance, a small diameter hole to the surface was observed. The pipe suspected to be leaking to this area is from the "pot wash" area and has been cut and cemented in.

There are numerous 55-gallon drums stored on site and throughout the plant. These drums hold glues and ink, and will eventually be poured into a 2,000-gallon holding tank inside the plant. Wastes are discharged from the tank to the incinerator and burned. The SCDHS has ordered that the drums be stored in two areas rather than throughout the plant.

The bathrooms on the site are connected to sanitary pools, and SCDHS inspection found the pools to be clean.

Mr. Cohen did not know if the underground ink waste storage tanks, the underground waste storage "cache", and the two leach pools located immediately east of the "cache" were installed by the previous occupant or by Commercial Envelope. However, the storm drain and associated leach pools were apparently installed prior to Commercial Envelope's purchase of the property in 1976. There are two 10,000-gallon, underground storage tanks on site; one containing gasoline and the other fuel oil. In mid-January 1986, there was a fuel oil spill when an oil distributor pumped too much fuel into one of the tanks.

Commercial Envelope Mfg. Co., Inc. has filled in most of the problem areas with sand in efforts to clean up the site. The three monitoring wells are proposed by Commercial Envelope to be installed to first water. There has been no testing of the incinerator smokestack as air monitoring was not ordered by the SCDHS.

The previous occupant at the facility was Alvin Seal, Inc., whose product line included items such as door frames and steel fencing. It is unknown if the manufacture or assembly of products occurred on site.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Interview Acknowledgement Form
Page 3

Revisions (please write in corrections to above transcript):

SEE attached information.

Signature: [illegible] **Date:** 4/9/86

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE 1 OF 2
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT	TEL.
PLANT ADDRESS	400 Grand Blvd.	VILLAGE Deer Park TOWN Bay N.Y.	ZIP
MAILING ADDRESS			

DATE 4/9/86	TIME Am	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

Additions + Corrections

(1) On January 30, 1986, the above company pled guilty to one count of Unlawful Discharge of Hazardous Waste in the Second Degree, a class E felony under the NYS Environmental Conservation Law and 100 violations of Section 12.17 of the Suffolk County Sanitary Code. On 1/30/86, the company was sentenced to pay a fine of $25,000.00 to the hazardous waste remedial fund under its felony convictions and an additional $25,000.00 to the County of Suffolk under the Sanitary Code convictions.

(2) Area below "bubbling pool" was scavenged by Chemical Pollution Control starting on Feb. 28, 86. Area below was a typical 3 ring leaching pool with a cement cone on top; the rings were approx. 12 ft across + the hole was approx. 18 ft. deep. The physical appearance was that a hole had been chopped thru a side wall of the dome (Southern edge) + a hole in the PVC pipe entering the leaching pools East of this pool allowed solids + liquid to enter the pool; no other means of waste entering the pool were discovered.

Chemical Pollution Control (CPC) removed approx. 1,500 gal. of liquid + 31 x 55 gal. of sludge from the pool.

Sample # of sludge 3DO 2/27 revealed Cu = 68.0 ppm, tot Chromium 21.0 ppm, Nickel 16.0 ppm, Lead 27.0 ppm, Cadmium < 1.5 ppm, Silver < 1.5 ppm. (analysis sheet attached).

069

(3) 3/4/86 - CPC filled in leaching pool below "bubbling pool" with clean sand to grade.

10-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER OFFICER	PAGE 2 OF 2
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT	TEL.
PLANT ADDRESS	*900 Grand Blvd. VILLAGE Deer Park	TOWN Babylon N.Y.	ZIP
MAILING ADDRESS			

DATE 4/9/86	TIME	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

(4) The three under ground ink waste tanks located on the East side of Commercial were found to still contain industrial waste. Approx. 3000 gal. of liquid + approx. 100 x 55 gal. of sludge.

On Friday 4/4/86 the three tank were filled in with cement + all influent pipes plugged with cement.

(5) Additional soil contamination was discovered along the west side of the excavation around the ink waste tanks. (IDC 2/27) The analysis revealed; Copper 865.0 ppm. tot Chromium 37.0 ppm. Nickel 25.0 ppm. lead 1660.0 ppm. Cadmium <2.2 Silver <2.2. by EPA soil analysis.

Commercial Envelope Mfg has been ordered by SCDHS to remove the contamination.

(6) Area around + below the trash compactor on the East side of the bldg. was again filled with liquid industrial waste which was removed by CPC.

DAVID OBRIEN PHD.

Correction

NOTE: 2nd Para. There are three leaching pools located on the East side of Commercial Envelope Mfg Corp. all three were receiving industrial waste.

David Obrien PHD

070

18-234: 9/84

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/

FIELD NO. 1DO 2/27 LAB NO. 2-86-122 DATE COMPLETED 3/11/86 G. Mathe

NAME OR FIRM Commercial Envelope Mfg. Corp.

ADDRESS OR LOCATION Grand Blvd. Deer Park

POINT OF COLLECTION Blue/green material found, 2ft below grade

REMARKS/INSTRUCTIONS in West side of waste ink tank excavation,

TEST	RESULTS	TEST	RESULTS		TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	X	COPPER	865. ppm
CHLORIDE	Mg/l	SUSPENDED SOLIDS			IRON	
CYANIDE		DISSOLVED SOLIDS			MANGANESE	
MBAS		(EPA Analysis Soil,		X	CHROMIUM-TOT	37.
COD		Methods,	)	X	NICKEL	25.
TOC				X	ZINC	—
				X	LEAD	166.
				X	CADMIUM	<2.2
NITRATE-N			SOLID	X	SILVER	<2.2
NITRITE					CHROMIUM-+6	
AMMONIA-N						
TKN		pH (FIELD)				
		TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	2/27/86	11:00
2. POSSESSION BY	David Obry	SCDHS	2/27/86 11:00	2/27/86 12:00
. POSSESSION BY				
4. RECEIVED LAB BY	G. Mathew		2/27 12:00	
5. POSSESSION BY				
6. POSSESSION BY				

071

LAB NO. IW 286025
REC'D 2-27-86 by FA
FIELD NO. IRS2-27

File
PO

DATE COMPLETED 3-6-86
EXAMINED BY FJA

COPY
PO

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name Commercial Envelope Mfg. Corp.

Location Grand Blvd Deer Park N.Y.

Point of Collection EAST SIDE OF BLDING., PINK LIQUID FROM INSIDE MANWAY OF INGROUND METAL INK WASTE TANK, FURTHEST west of the 3 ink tanks

Remarks

BD None

Compound	ppb	Compound	ppb
1,2 Dichloroethane	<20	Chlorobenzene	<20
1,1 Dichloroethane	<20	p-Diethylbenzene	—
Chloroform	<20	p-Ethyltoluene	<20
1,1,2,2, Tetrachloroethane	<20	1,3,5 Trimethylbenzene	<20
Methylene Chloride	<20	1,2,4 Trimethylbenzene	—
1,1 Dichloroethylene	<20	Chlorotoluene(s)	<20
Cis 1,2 Dichloroethylene	160		
		1,2,4,5 Tetramethylbenzene	<20
1,1,1 Trichloroethane	<20	m,p-Dichlorobenzene	<20
1,1,2 Trichloroethane	<20	o-Dichlorobenzene	<20
Carbon Tetrachloride	<20	Bromobenzene	<20
1,1,2 Trichloroethylene	<20	1,2,4 Trichlorobenzene	<20
Freon 113	<20	1,2,3 Trichlorobenzene	<20
Tetrachloroethylene	73		
		Octane	<20
Benzene	<20	Nonane	180
Toluene	100	Decane	550
Styrene	<20	Undecane	330
Ethylbenzene	81		
Xylene(s)	290		

During transport of the sample from collection point to laboratory, the chain of custody must not be broken. The sample should be delivered by the sample collector or a designated representative who will sign for the receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
Collected by	Robert [illegible]	SCDHS	2/27/86	3:00
Transfered to	Francis J Amendola	SCDHS-PHL	2-27-86	3:45 PM
Transfered to				
Transfered to				

SPS/86

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8:

FIELD NO. 2DO 2/27 LAB NO. 2-86-123 DATE COMPLETED 3/11/86 G. Mathew

NAME OR FIRM: Commercial Envelope Mfg Corp.

ADDRESS OR LOCATION: Grand Blvd. Deer Park

POINT OF COLLECTION: "clinkers" found below firing chamber of industrial waste incinerator.

REMARKS/INSTRUCTIONS:

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	1017. ppm
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	74.
	COD					X	NICKEL	46.
	TOC					X	ZINC	—
						X	LEAD	130.
						X	CADMIUM	12.
	NITRATE-N				SOLID	X	SILVER	1.7
	NITRITE						CHROMIUM-+6	
	AMMONIA-N							
	TKN			pH (FIELD)				
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME	TO DATE - TIME
1. COLLECTED BY	David	Suff. Co.	2/27/86 11:10	
2. POSSESSION BY	Obry	Health Dept.	2/27/86 11:10	2/28/86 12 pm
3. POSSESSION BY				
4. RECEIVED LAB BY	G. Mathew		2/27 12:00	
5. POSSESSION BY				
6. POSSESSION BY		073		

3/25/86

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2

FIELD NO. 3 DO 2/27 LAB NO. 2-86-124 DATE COMPLETED 3/11/86 B.M.

NAME OR FIRM Commercial Envelope Mfg Corp

ADDRESS OR LOCATION Grand Blvd. Deer Park.

POINT OF COLLECTION sludge from bottom of leaching pool,

REMARKS/INSTRUCTIONS found below "bubbling pool", Southern exposure.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	68.
CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	21.
COD					X	NICKEL	16.
TOC					X	ZINC	—
					X	LEAD	27.
					X	CADMIUM	<1.5
NITRATE-N					X	SILVER	<1.5
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)				
			TEMP. (FIELD)				

SOLID

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME		DATE - TIME
1. COLLECTED BY	David	Sff Co.	2/27/86		11^20
2. POSSESSION BY	Obry	Health Dept.	2/27/86 11^20	TO	2/28/86 12^00
3. POSSESSION BY				TO	
4. RECEIVED LAB BY	B. Matthew		2/27 12.00		
5. POSSESSION BY				TO	
6. POSSESSION BY				TO	

3/25/8 OC

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247

FIELD NO. 4D02/27 (m) LAB NO. 2-86-125 DATE COMPLETED 3/10/86

NAME OR FIRM Commercial Envelope Mfg. Corp.

ADDRESS OR LOCATION Grand Blvd, Deer Park NY

POINT OF COLLECTION East side of Bldg, pink liquid from waste warmup

REMARKS/INSTRUCTIONS of inground metal ink waste tank, furthest West of three tanks

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.34 Mg/
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	12.
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.1
COD			-		X	NICKEL	<.1
TOC					X	ZINC	1.4
					X	LEAD	<.2
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	.05
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	ph ≥ 6			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME	TO DATE - TIME
1. COLLECTED BY	David Obry	SCDHS	Feb 27, 86 3:05 pm	
2. POSSESSION BY	David Obry	SCDHS	2/27/86 3:05 pm	2/28/86 12:00
3. POSSESSION BY				
4. RECEIVED LAB BY				
5. POSSESSION BY				
6. POSSESSION BY		075		

3/25/86

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2

FIELD NO. 5D02/27(M) LAB NO. 2-86-126 DATE COMPLETED 3/10/86

NAME OR FIRM Commercial Envelope Mfg Corp.

ADDRESS OR LOCATION Grand Blvd. Deer Park N.Y.

POINT OF COLLECTION East side of Bldg. pink liquid from inside

REMARKS/INSTRUCTIONS manway of inground metal ink waste tank, furthest East of three tanks.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH(LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.5 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	120.
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.7
COD					X	NICKEL	.6
TOC					X	ZINC	2.2
					X	LEAD	.9
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	.05
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	ph≥6			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obrig	SCDHS	Feb 27, 86	3:10 PM
2. POSSESSION BY	David Obrig	SCDHS	2/27/86 3:15 PM (DATE - TIME) TO	2/28/86 12:00 (DATE - TIME)
POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY		076	DATE - TIME TO	DATE - TIME

Appendix 11-4
p. 1 of 1

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) FILE 162103, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: David Obrig Date: 4 April 1986

Phone Number: 516 451-4633 Title: _____

Affiliation: SCDHS Type of Contact: phone

Address: _____ Person Making Contact: Ligotino

Communications Summary: Re: Commercial Envelope

Dave called regarding the Interview Acknowledgement Form. He questioned our indication that Steven Crystal is the owner. He believes it is Ira Crystal, Steven's father. I told him we would check on this. Since the site recon there has been a conversion and clean-up work at the site. Drums of material have been removed. The ink waste holding tanks have been cleaned out and filled with cement. The loading dock area was scavengened again. From the "filled in" pools — 3,000 gal of industrial waste liquids and ~150 drums of sludge were removed. The "Cache" was opened and scavenged. It was found to be a 3rd leaching pool. Removed 10's of drums of sludge of blue-black ink wastes.

(see over for additional space)

Signature: Rebecca Ligotino

Dave will update IAF and send it along with analytical data.

077

	OWNER/ OFFICER	PAGE 1 OF 1
Commercial Envelope Wfg. Corp.	CONTACT	TEL.
900 Grand Blvd. VILLAGE Deer Park	TOWN Bab. NY	ZIP
1.24.84 TIME 2:00 pm ORIG. PERIODIC RE.	WASTE NO WASTE HBH	SEWAGE SYSTEM PUBLIC PRIVATE

Babylon Town Hall - Building Dept., investigation of
mercial Envelope Wfg Corp. as per building Permits/or
structure plans.

The original building was constructed in 1973
the original tenant was a firm called
win seal Inc., they occupied the building
until approx 1978 when Commercial Envelope moved
the site.

Of special note: there are two (2) large
derground tanks on site, originally they held fuel oil,
ever the use on one tank was changed to
l gasoline. At the facility now there are two
,000 gal. tanks, 1 holds fuel oil, the 2nd holds gasoline.

Of special note: On construction plans observed at
Babylon Town Bld. Dept. Industrial Chemical + Air Pollution Survey,
/7/79, signed by Ira B. Kristel, revealed the tie,

078

Received from:
Suffolk Co. Dept. of
Health

1006

Appendix 1.1-6

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS AND PLANNERS
125 BAYLIS ROAD, SUITE 140, MELVILLE, N.Y. 11747 • 516-752-9060

RECEIVED
APR 12 1985
SUFFOLK COUNTY
JOB NO.

April 9, 1985

Mr. John Soderberg
Suffolk County Dept. of
Health Services
15 Horseblock Place
Farmingville, New York 11738

Re: Commercial Envelope Mfg. Co.
Air Permit

Dear Mr. Soderberg:

Enclosed is a completed application to operate a high-temperature incinerator at the Commercial Envelope facility in Deer Park.

There are now no liquid waste discharges to ground at this plant, other than sanitary wastewaters.

Yours truly,

HOLZMACHER, McLENDON & MURRELL, P.C.

Hugo D. Freudenthal, Ph.D.

HDF:rms
Enclosure

cc: Ira B. Kristel, President
Paul Creditor, Esq.

Melville, New York • Farmingdale, New York • Riverhead, New York

2 of 6

ESTIMATE OF EMISSIONS

COMMERCIAL ENVELOPE MFG. CO., INC.

General Information

Commercial Envelope Manufacturing Co., Inc. is engaged in the business of producing and printing envelopes. The major sources of industrial wastewater at this facility include a printing-wash station, photo laboratory and miscellaneous wash sinks. The current wastewater flows from these sources are estimated to total approximately 750 gallons per day. These non-hazardous wastewaters are accumulated within the facility building in a 2000-gallon capacity, above-ground storage tank. The wastewaters are disposed of by high-temperature incineration in a liquid waste disposal system.

In order to determine the "emission rate potential" (ERP) from the liquid waste disposal system, several samples of the liquid waste were analyzed during the period of December 1984 through February 1985. Based on these analytical data, the characteristics of the wastewater fed to the incinerator and the emissions were estimated. Details of these computations are presented below.

Computations

Number of hours of system* operation per day	24 hours
Number of days of system operation per week	5 days
Number of weeks of system operation per year	50 weeks
Design wastewater feed rate to the system	0.67 GPM
Design wastewater feed rate to the system per hour	40 gallons

*System = waste disposal system

Estimated Emissions:

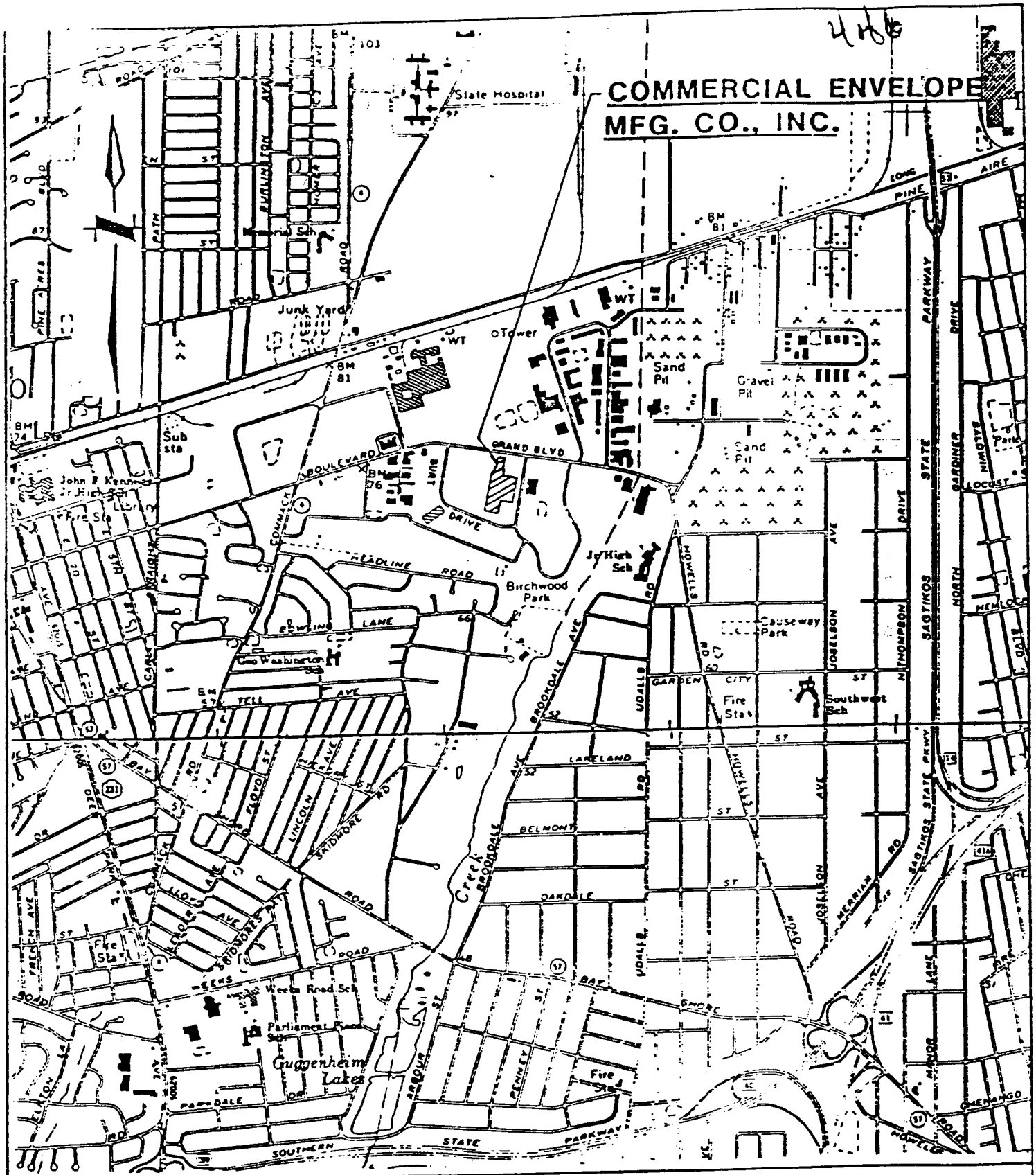
Wastewater Constituent	Estimated* Maximum Concentration (mg/l)	Input to Liquid Disposal System (lbs/hr)	Actual Emissions (lbs/hr)	Emission Rate Potential (ERP) (lbs/hr)	Actual Emissions (lbs/yr)
Lead Oxide (as Pb)	3.0	1.00×10^{-3}	1.00×10^{-3}	1.00×10^{-3}	6.0
Silver Salts (as Ag)	2.8	9.30×10^{-4}	9.30×10^{-4}	9.30×10^{-4}	5.61
Copper Salts (as Cu)	31.2	1.04×10^{-2}	1.04×10^{-2}	1.04×10^{-2}	62.5
Iron Salts (as Fe)	193.0	6.44×10^{-2}	6.44×10^{-2}	6.44×10^{-2}	386.6
Particulates**	3928.0	1.31	1.31	1.31	7867.0
Hydrogen Chloride***	Traces	2.30×10^{-4}	2.30×10^{-4}	2.30×10^{-4}	1.38

*Based on four sets of analytical data. The concentration data presented are the maximum detected levels.

**Assumed to be generated from the dissolved and suspended solids content of the wastewater.

***Assumed to be generated from the combustion of trace quantities of volatile halogenated organic compounds present in the wastewater. This includes methylene chloride (0.37 mg/l max.) and tetrachloroethylene (0.42 mg/l max.).

FIGURE-1



LOCATION MAP
COMMERCIAL ENVELOPE MFG. CO., INC.

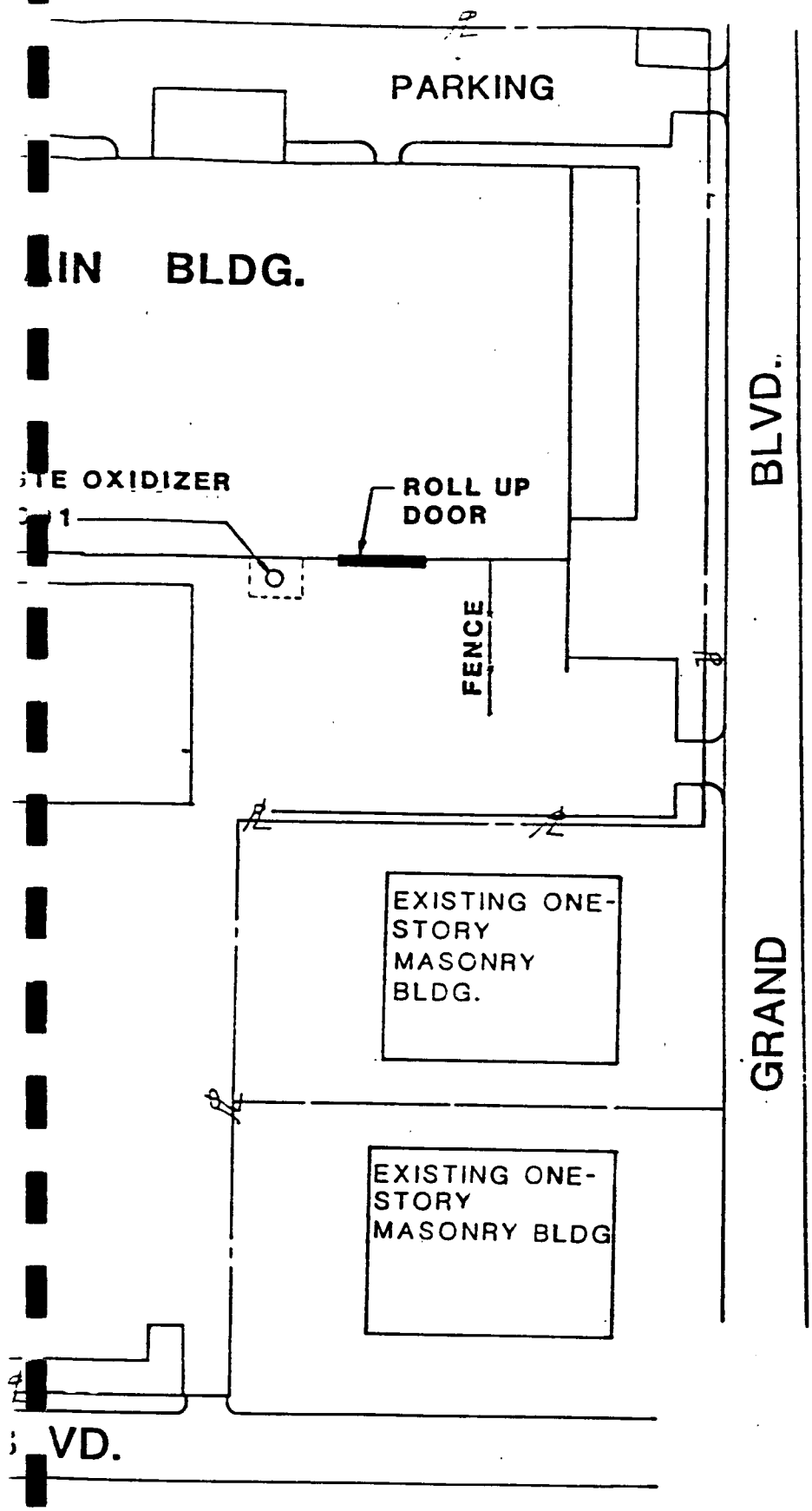
SCALE: 1"=2000'

H2M HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.

082

6 of 6



NOTES:

1. PREDOMINANT WIND DIRECTION } SUMMER: SOUTH WINTER: NORTH-
2. SHORTEST DISTANCE TO FENCE LINE } 150ft. (EAS
3. SHORTEST DISTANCE TO BUILDING OUTSIDE FENCE LINE } 185ft. (EA

SITE - PLAN

COMMERCIAL ENVELOPE MI
CO., II

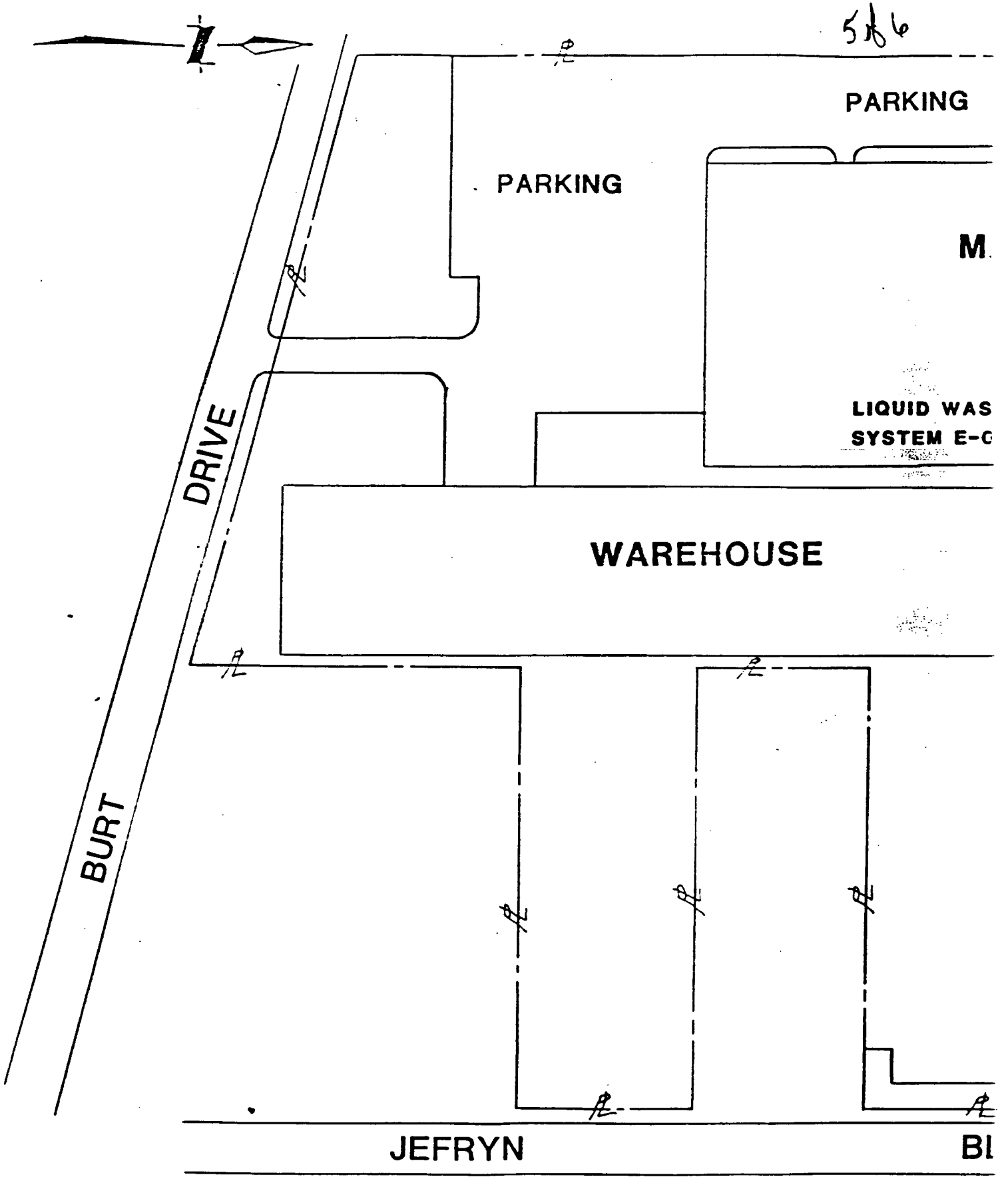
300 GRAND BLVD.
DEER PARK, NEW YORK
JANUARY 1985

S.C. I.D No
DWG 0000

H2M HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.

084


PARKING
PARKING
M
LIQUID WAS
SYSTEM E-C
WAREHOUSE
BURT DRIVE
JEFRYN
Bl

Appendix 1.1-7

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
125 BAYLIS ROAD, SUITE 140, MELVILLE, N.Y. 11747 • 516-752 9060

February 20, 1985

Peter R. Akras, M.S.P.H.
Public Health Engineer
Suffolk County Dept. of
Health Services
15 Horseblock Place
Farmingville, NY 11738

Re: Commercial Envelope
Mfg. Co. Warehouse

Dear Mr. Akras:

Pursuant to your telephone request, I am reporting on the occurrence of hazardous materials in the new "warehouse" of our client, Commercial Envelope Mfg. Co.

I visited the premises yesterday afternoon, unannounced. Walk-through was made once alone, and again with the plant manager. Thus, I am confident that I saw all that was to be seen.

The structure is a 85,000 square foot Butler "prefab" metal building, erected on a concrete pad. It is used primarily for the bulk storage of paper. A small area is used for job-lot printing, on "multilith" type machines. There are no floor drains or wash down facilities.

The following materials were found:

1. 3X55 gal. drums, on pallet
   Derruchem Industrial Degreaser
   These drums belong to the contractor, and Commercial Envelope is awaiting their pick-up and removal.

2. 1X55 gal. drum, with hand operated metering pump, on pallet
   Multilith Blankrola Solvent (perchloroethylene and petroleum naptha)
   This is a working drum. The pump dispenses approximately one quart, and is used to fill a small plastic bottle with solvent, used to clean the multilith press rollers.

3. 1X55 drum, with hand operated metering pump, on pallet
   Varn Planket and Roller Wash, V-133
   This has the same use as item 2, above

4A 2X55 gal. drums, on pallet
D.T.E. Heavy Medium (Mobil Oil Co.)

4B 2X55 gal. drums with pump dispenser, on pallet
Ethylene glycol antifreeze

4C 1X55 gal. drum, on pallet
Dextron #2 transmission fluid

4D 1X55 gal. drum with pump dispenser, on pallet
SAE 40 motor oil

(The above drums are working quantities of fluids used in the company's vehicles.)

5. Approximately two dozen X 5 gal. pails, on floor around presses
Multilith ink
These are inks used on the presses. Although I do not have the product sheets, they are manufactured by the "Environmental Inks and Coatings Corp." which implies some degree of environmental compatibility.

There is no bulk storage of solvents, oils, or other hazardous substances within the building. The working drums are stored in such a manner that physical damage or spillage is not likely. Even if a drum were to leak, the broad expanse of level concrete floor would preclude run off outside the building. Such spillage could be controlled by absorbents. As part of our Article XII report, we will be specifying proper storage and containment for future bulk quantities.

Operations within the warehouse appear very tidy, and our client is making a bona fide effort to operate in accordance with Suffolk regulations.

Yours truly,

HOLZMACHER, McLENDON & MURRELL, P.C.

Hugo D. Freudenthal, Ph.D.

HDF:rms

cc: Paul Creditor, Esq.

File
Commercial Envelope

Appendix 1.1-8

Received from:
Suffolk Co. Dept. of
Health

1 of 3

Inspections

Jan. 15, 1981 - Spill complaint, on site, 3:50 pm., sample. * 1.
Jan. 16, 81 - Full inspection [illegible], 9:30 * 2.
Jan. 21, 81 - sample, [illegible] pool, holding tanks. * 3.
- discharge into tanks.
Jan. 27, 81 -> spill site reinspection. * 4
Jan. 30, 81 -> telephone conversation, "remove soil."
Feb. 2, 81 -> spill site reinspection, no clean up. * 5.
Feb. 4, 81 -> sample spill + note on spill. * 6.
FEB. 11, 81 -> sample, spill. * 7.
Feb. 23, 81 -> - [illegible]
Feb. 27, 81 -> Inspection, on spill, clean up, embankment [illegible] * 8.

March [illegible] 81 -> [illegible]

April 20, 81 -> Inspect spill area, for clean up [illegible] * 9.

June 16, 81 -> Informal Hearing

April 1, 82 - Formal [illegible] (14)
MAY 5, 82 -> Inspection, hose to S.D. * 10.
[illegible] 82 -> sample SD relevant discharge. 11.
July 15, 82 -> Inspection, [illegible], to observe [illegible]? * 12.
Sept. 9, 82 -> Inspection, incinerator on site.. * 13.
Sept. 13, 82 -> Formal Hearing
-> May 6, 82 -> Full Inspection; * 14.
June 5, 82 -> Inspection, pump to S.D. * 15.

286-[illegible]
Sgt. Estrada

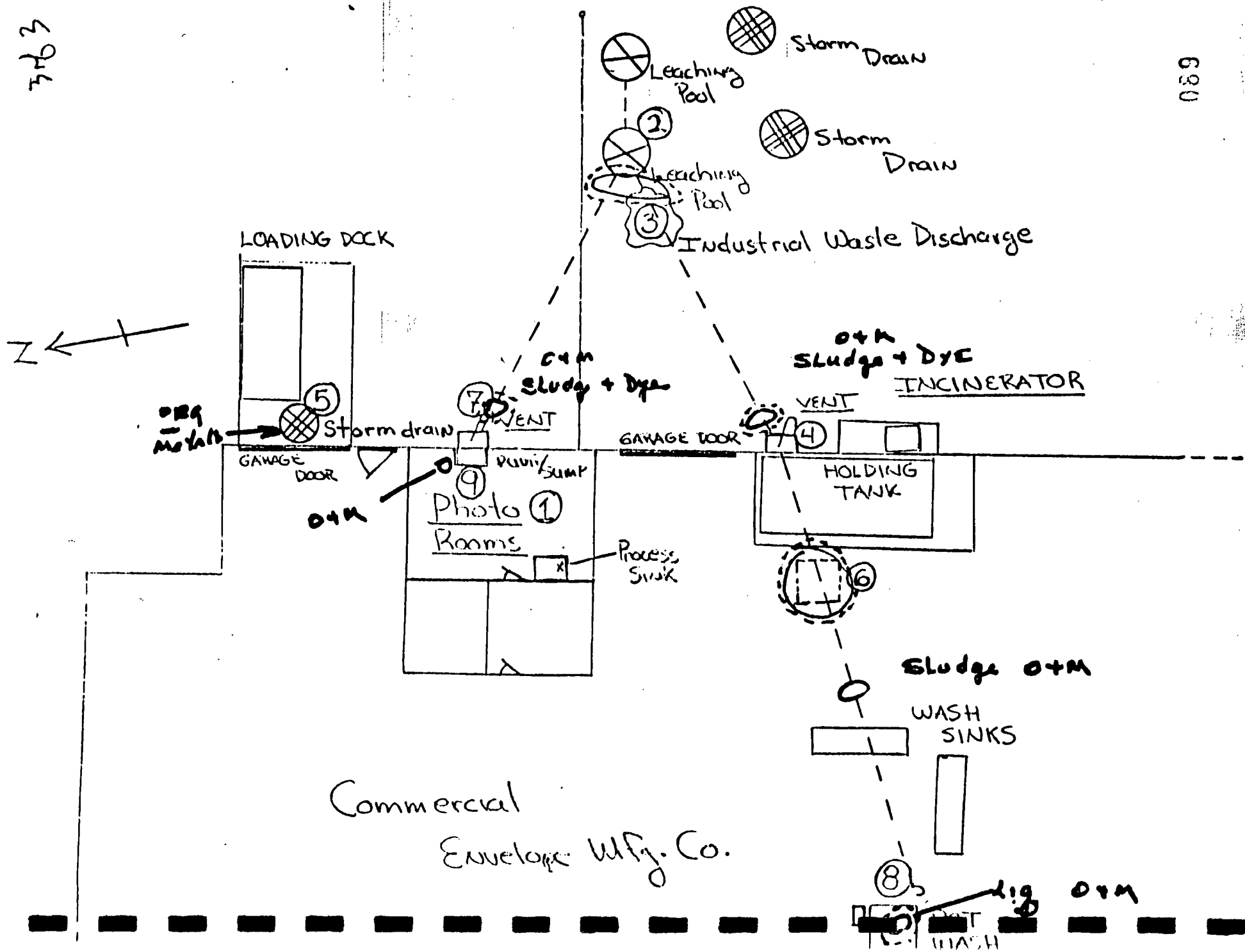
2 of 3

Jan. 26, 84 -> Formal Hearing
Postponed
Feb. 2, 84 -> Formal Hearing
Feb. 15, 84 -> Formal Hearing
March 8, 84 -> Formal Hearing
August 24, 84 ->
August 29, 84 -> JJ - sample ~~[illegible]~~ loading dock 16.
+ me.
October 23, 84 -> bubbling ~~[illegible]~~ puddle 17.
Oct. 24, 84 -> Sample, sand, vent box, puddle 18
NOV. 16, 84 -> INSPECTION 19.
Dec. 5, 84 -> telephone conversation Dr. [illegible],
commercial cut line to pool.

-> observed pipe [illegible], vent to holding tank,
which had been cut.
Jan. 3/4, 85 -> Pipes in ink post dish pools, 20.
January 9, 1985 -> Certified letters to Commercial.

Jan. 11, 85 -> Overflow [illegible] loading pool. 21.
January 25, 85 -> Pump [illegible] 22.
June 17, 85 -> Incinerator inspection 23.

Jan. 14, 85 -> Pipes to ~~[illegible]~~ loading dock SD, + overflow 24.
Pool filled with [illegible]


Storm Drain
Leaching Pool
2
Storm Drain
Leaching Pool
3
Industrial Waste Discharge
LOADING DOCK
N
O&M
Sludge + Dye
O&M
Sludge + Dye
INCINERATOR
5
Storm drain
7
VENT
VENT
4
GARAGE DOOR
GARAGE DOOR
9
Floor/Sump
O&M
Photo 1
Rooms
Process Sink
HOLDING TANK
6
Sludge O&M
WASH SINKS
Commercial
Envelope Mfg. Co.
8
O&M
WASH

EXAMINED . Appendix 1.1-9
1 of 8

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Commercial Equipment
911 Fordham Blvd DP

Collection - rain runoff pool ≅ 1mile east of swelling "building pool" on the east side of bldg.

Compound	ppb	Compound	ppb
Chloride	330	Cis Dichloroethylene	<16
[illegible]	<4	Benzene	<10
[illegible]	<5	Toluene	93
[illegible]hloroethane	150	Chlorobenzene	<12
[illegible]etrachloride	<1	Ethylbenzene	<10
[illegible]ichloroethylene	<5	Xylene(s)	55
[illegible]oromethane	<3	Bromobenzene	<16
[illegible]hloroethane	<5	Chlorotoluene(s)	<12
[illegible]bromomethane	<2	1,3,5 Trimethylbenzene	12
[illegible]oethylene	11	1,2,4 Trimethylbenzene	28
[illegible]	<5	m,p-Dichlorobenzene	<14
Tetrachloroethane	<[illegible]	o-Dichlorobenzene	<14
[illegible]	<40	p-Diethylbenzene	14
[illegible]	<10	1,2,4,5 Tetramethylbenzene	<10
[illegible]uene	<40	1,2,4 Trichlorobenzene	<11
[illegible]	15	1,2,3 Trichlorobenzene	<19
[illegible]	40		
[illegible]e	58		

Sworn before me this 2nd day of January 19 85

Ida Punturieri
IDA PUNTURIERI
NOTARY PUBLIC, State of New York
Qualified in Suffolk County
No. 52-4665040

[illegible] THIS [illegible] COPY
[illegible]

[illegible]ing transport of the sample from collection point to laboratory, [illegible]in of custody must not be broken. The sample should be delivere[illegible] [illegible]ample collector or a designated representative who will sign [illegible] receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
[illegible]ected by	[illegible]	SCDHS	9/11/84	9:40 AM
[illegible]fered to	Francis J Amendola	SCDHS-PHL	9-12-84	11:20 AM
[illegible]fered to				
[illegible]fered to				

090

2 of 8

SUFFOLK COUNTY HEALTH SERVICES LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 2JJ919 LAB NO. 9-84-172 DATE COMPLETED 9/25/84

NAME OR FIRM Commercial Envelope

ADDRESS OR LOCATION 900 Grand Blvd, DP

POINT OF COLLECTION Solid covered pool ≅ 10 ft east

REMARKS/INSTRUCTIONS of overflowing bubbling "pool" east side of bldg

TEST	RESULTS	TEST	RESULTS		TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	X	COPPER	.08 Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		X	IRON	5.
CYANIDE		DISSOLVED SOLIDS			MANGANESE	
MBAS				X	CHROMIUM-TOT	.4
COD				X	NICKEL	<.1
TOC				X	ZINC	.4
				X	LEAD	<.2
NITRATE-N				X	CADMIUM	.05
NITRITE				X	SILVER	1.5
AMMONIA-N				X	CHROMIUM-+6	.4
KN						12/5/84
		pH (FIELD)				
		TEMP. (FIELD)				

I hereby certify that this is a true and accurate copy.
George Mallard DATE 12/19/84
ALBERT FORAY
NOTARY PUBLIC State of New York
No. 52-0353243
Qualified in Suffolk County
Commission Expires March 30, 19 84
[signature]

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

RING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE AIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE MPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN- IVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE ING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
COLLECTED BY	J Johnson	SCDHS	9/19/84	9:00 AM
POSSESSION BY	J Johnson	SCDHS	9/19/84 9:00 am	9/19/84
POSSESSION BY				
RECEIVED LAB BY	G. Mallard		9/19 11:45	
POSSESSION BY				
POSSESSION BY				

091

10/2/84
OL

SUFFOLK COUNTY HEALTH SERVICES LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 3JJ919 LAB NO. 9-84-173 DATE COMPLETED 9/25/84

NAME OR FIRM Commercial Envelope

ADDRESS OR LOCATION 900 Grand Blvd, DP

POINT OF COLLECTION Loading dock (spill) east side of

REMARKS/INSTRUCTIONS of bldg

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.6 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	[illegible]
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
[illegible]AS					X	CHROMIUM-TOT	.06
COD					X	NICKEL	<.1
T[illegible]C					X	ZINC	.6
					X	LEAD	[illegible]
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	<.02
[illegible]RITE					X	CHROMIUM-+6	
AMMONIA-N							
[illegible]N			pH (FIELD)	≅			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

[illegible]NG TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE [illegible]IN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE [illegible]LE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN-[illegible]IVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE [illegible]ING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
COLLECTED BY	J Johnson	SCDHS	9/19/84	9 00 AM
[illegible]SSESSION BY	J Johnson	SCDHS	9/19/84	9 00 AM
POSSESSION BY			DATE - TIME TO	DATE - TIME
[illegible]EIVED LAB BY	B. Gallen		DATE - TIME TO 9/19 11:45	DATE - TIME
[illegible]OSSESSION BY			DATE	TIME
[illegible]SSESSION BY			DATE - TIME TO	DATE - TIME
			DATE - TIME TO	DATE - TIME

NO. 1JJ919

488

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Commercial Envelope

ion 900 Grand Blvd, DP

of Collection Storm drain receiving overflow from

s: "Bubbling pool" (≈ 25 ft SE of pool") on the EAST side of bldg.

Compound	pbb	Compound	ppb
lene Chloride	2100	Cis Dichloroethylene	<16
113	<4	Benzene	<10
oform	10	Toluene	690
Trichloroethane	4	Chlorobenzene	<12
n Tetrachloride	<1	Ethylbenzene	50
Trichloroethylene	<5	Xylene(s)	290
ichloromethane	<3	Bromobenzene	<16
Trichloroethane	<5	Chlorotoluene(s)	<12
odibromomethane	<2	1,3,5 Trimethylbenzene	74
hloroethylene	70	1,2,4 Trimethylbenzene	190
orm	<5	m,p-Dichlorobenzene	<14
,2 Tetrachloroethane	<3	o-Dichlorobenzene	<14
	<40	p-Diethylbenzene	51
e	<10	1,2,4,5 Tetramethylbenzene	42
ane	<40	1,2,4 Trichlorobenzene	<16
ltoluene	91	1,2,3 Trichlorobenzene	<15
ne	93		
ecane	170	Methyl Isobutyl Ketone	170

HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY

Sworn before me this 2nd day of January 1985

IDA PUNTURIERI
NOTARY PUBLIC, State of New York
Qualified in Suffolk County
No. 52-4665040
Commission Expires March 30, 1986

Ida Punturieri

During transport of the sample from collection point to laboratory, chain of custody must not be broken. The sample should be delivere the sample collector or a designated representative who will sign r the receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
Collected by	[illegible]	[illegible]	9/11/84	9:30 AM
Transfered to	[illegible]	SC DHS DLL	9-10-84	11:20 pm
Transfered to				
Transfered to				

093

COUNTY OF SUFFOLK

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DAVID HARRIS, M.D., M.P.H.
COMMISSIONER

DEPARTMENT OF HEALTH SERVICES

August 21, 1985

CERTIFIED MAIL R.R.R.

Commercial Envelope Manufacturing Company
900 Grand Boulevard
Deer Park, New York 11729

Attention: Mr. Ira Kristel, President

Gentlemen:

Laboratory analyses of samples removed from Commercial Envelope Manufacturing Company on July 7, 1985 indicate a number of serious potential health problems.

The area below the trash compactor in the loading dock contains liquid which is a combination of rain water and ink waste which spilled from the compactor. The loading dock area had previously been identified to Commercial Envelope as a source of discharge of toxic and hazardous materials. However, actions discussed by Commercial Envelope to control the disposal of ink waste and exposure of the compactor to the weather obviously have not been successful. Therefore, you are directed to have the material (liquid and sludge) tested and removed by an appropriate licensed scavenger. (2)

A second area of concern was discovered close to the two leaching pools located on the east side of Commercial. These two leaching pools had previously been scavenged and filled to grade with sand by Chemical Pollution Control.

Approximately 4 - 5 feet west of the pool identified as Pool #2, the department uncovered a cache of liquid with a depth greater than 8 feet. This liquid was sampled and found to be contaminated with a long list of organic solvents - methylene chloride 180 ppb; 1,1,2 trichloroethylene 33 ppb; p-ethyltoluene 210 ppb; n-decane 190 ppb; n-undecane 130 ppb; cis-dichloroethylene 110 ppb; toluene 970 ppb; ethylbenzene 52 ppb; xylene(s) 500 ppb; 1,3,5 trimethylbenzene 190 ppb; 1,2,4 trimethylbenzene 430 ppb; p-diethylbenzene 98 ppb; 1,2,4,5 tetramethylbenzene 64 ppb.

LEACHING POOL # 3 (UNIDENTIFIED)

#3 LEACHING POOL (NOW IDENTIFIED)

This cache of unknown liquid must be uncovered for department inspection. The liquid and sludge contained in the cache must be removed by a New York State licensed industrial waste scavenger as soon as possible. The resulting hole must be filled in with clean fill to grade. The Suffolk County Department of Health Services must be notified 72 hours or three working days prior to any work being done so that one of our representatives will be present.

The contaminants in the cache represent unsatisfactory conditions and may constitute violations of the New York State Environmental Conservation Law and Article 12 of the Suffolk County Sanitary Code, which were promulgated to reduce groundwater contamination. Under the Suffolk County Sanitary Code you may be subject to the imposition of a $500 civil penalty each day that these conditions are allowed to remain.

We wish to express our deep concern regarding these conditions, and it is most important that you act expeditiously to eliminate the aforementioned conditions.

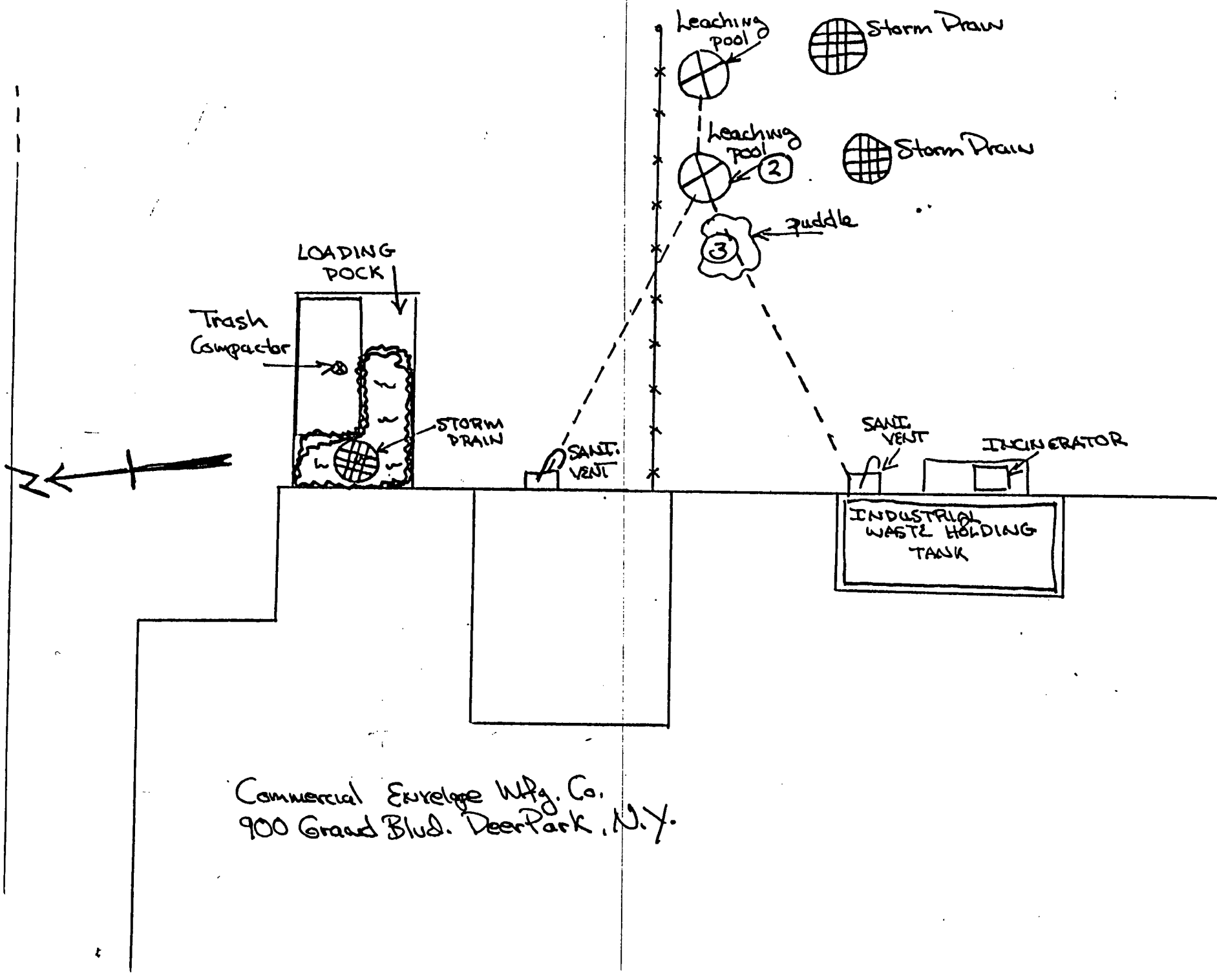
Thank you in advance for your prompt attention in this matter.

Very truly yours,

Frank M. Randall

Frank M. Randall
Supervisor
Inspectional Services

FMR/jhn


Leaching pool
Storm Drain
Leaching pool
2
Storm Drain
puddle
3
LOADING DOCK
Trash Compactor
STORM DRAIN
SANI. VENT
SANI. VENT
INCINERATOR
INDUSTRIAL WASTE HOLDING TANK
Grand Blvd.
Commercial Envelope Mfg. Co.
900 Grand Blvd. Deer Park, N.Y.

SUFFOLK COUNTY HEALTH SERVICES LABORATORY 5000

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

L NO. 7007/9 LAB NO. 7-85-97 DATE COMPLETED 7-16-85 G. [illegible]

ME OR FIRM Commercial Envelope Mfg Corp

DRESS OR LOCATION 900 Grand Blvd. Deer Park, N.Y.

INT OF COLLECTION Green dye colored liquid inside pool

MARKS/INSTRUCTIONS at Area #3 - ~~below pipe~~ pool below pipe which enters area #2.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
(LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.1 Mg/l
LORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	1.2x10'
NIDE			DISSOLVED SOLIDS			MANGANESE	
AS					X	CHROMIUM-TOT	<.02
					X	NICKEL	<.1
						ZINC	
					X	LEAD	<.2
					X	CADMIUM	<.02
RATE-N					X	SILVER	<.02
TE					X	CHROMIUM-+6	
MONIA-N							
N			pH (FIELD)				
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☒ COOL 4°C

CUSTODY OF SAMPLE

N TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE N OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN- E WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE NG SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
OLLECTED BY	David Obrig	SCDHS	July 9, 85	1:45 PM
SSESSION BY	[illegible]	SCDHS	7-9-85 1:45 PM	7-9-85 3:50 PM
SSESSION BY				
CIVED LAB BY	G. [illegible]		7/9/85 4 Pm	
SSESSION BY				
SSESSION BY				

097

...OLK COUNTY HEALTH SERVICES LABORATORY 680

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

...D NO. 1EJ 7-9 LAB NO. 7-85-98 DATE COMPLETED 7-16-85 G. Mathew

...ME OR FIRM COMMERCIAL ENVELOPE MFG INC

...DRESS OR LOCATION 900 GRAND BLVD, DEER PARK, NY

...INT OF COLLECTION AREA 5 LOADING DOCK - SLUDGE (AT BASE

...ARKS/INSTRUCTIONS OF COMPACTOR) and LIQUID (in separate bottle)

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS SLUDGE	RESULTS SOLUTION
...H (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	1×10^2	Mg/l .17
...HLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	7.7×10^3	4.8×10^1
...Y...NIDE			DISSOLVED SOLIDS			MANGANESE		
...BAS					X	CHROMIUM-TOT	2.4×10^1	.1
...O			Test results of sludge		X	NICKEL	<4.8	<.1
...OC			sample are approximate		X	ZINC	1.7×10^2	1.1
			values.		X	LEAD	5.8×10^1	<.2
					X	CADMIUM	<.9	<.02
...TRATE-N					X	SILVER	2.9	<.02
...TRITE					X	CHROMIUM-+6		
...ONIA-N								
...N			pH (FIELD)					
			TEMP. (FIELD)					

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☒ COOL 4°C

CUSTODY OF SAMPLE

...G TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE ...N OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE ...E BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN- ...WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE ...NG SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
...LECTED BY	Eric Jongleroy	SCDHS	7-9-85	11 03 AM
...SSESSION BY	Eric Jongleroy	SCDHS	7-9-85 11 03 AM	7-9-85 3 50 PM
...SSESSION BY			DATE - TIME TO	DATE - TIME
...CEIVED LAB BY	G. Mathew		DATE - TIME TO	DATE - TIME
...SSESSION BY			7/9/85 7 PM	
...SSESSION BY			DATE	TIME
			DATE - TIME TO	DATE - TIME
			DATE - TIME TO	DATE - TIME

098

D NO. 700 7/9

EXAMINED BY ERC 8/19/85 OL.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

e Commercial Envelope Mfg Corp.

ation 900 Grand Blvd. Deer Park NY.

n of Collection Green dye colored liquid from

arks: pool below pipe ~~discharging~~ entering ~~into~~ area #2. observed active discharge from pipe to pool.

Compound	pbb	Compound	ppb
thylene Chloride	190	Cis Dichloroethylene	110
113	<20	Benzene	<20
oroform	<20	Toluene	270
1 Trichloroethane	<20	Chlorobenzene	<20
n Tetrachloride	<20	Ethylbenzene	52
,2 Trichloroethylene	[illegible]	Xylene(s)	500
modichloromethane	—	Bromobenzene	<20
, Trichloroethane	<20	Chlorotoluene(s)	<20
odibromomethane	—	1,3,5 Trimethylbenzene	100
rachloroethylene	<20	1,2,4 Trimethylbenzene	420
form	—	m,p-Dichlorobenzene	<20
,2 Tetrachloroethane	<20	o-Dichlorobenzene	<20
ane	<20	p-Diethylbenzene	[illegible]
rene	<20	1,2,4,5 Tetramethylbenzene	[illegible]
ane	—	1,2,4 Trichlorobenzene	<20
thyltoluene	210	1,2,3 Trichlorobenzene	[illegible]
ecane	190	1,2 Dichloroethane	<20
ecane	120	Dichloroethane	<20
		Dichloroethylene	[illegible]

During transport of the sample from collection point to laboratory, h chain of custody must not be broken. The sample should be delivered y the sample collector or a designated representative who will sign o the receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
Collected by	[signature]	SCDHS	7/9/85	1:45 PM
Transfered to	[signature]	SCDHS	[illegible]-85	1:45 PM
Transfered to	Kenneth M. Hill	JCPHL	7-9-85	3:30 PM
Transfered to				

099

REC'D ____ By ____
FIELD NO. IES 7-9

DATE COMPLETED
EXAMINED BY ERC 8/9

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCE
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name: COMMERCIAL ENVELOPE MFG. CORP.

Location: 900 GRAND BLVD, DEER PARK

Point of Collection: LOADING DOCK - near compactor

Remarks: bluish, wet sludge

Compound	pbb	Compound	
Methylene Chloride		Cis Dichloroethylene	
Freon 113		Benzene	
Chloroform		Toluene	
1,1,1 Trichloroethane		Chlorobenzene	
Carbon Tetrachloride		Ethylbenzene	
1,1,2 Trichloroethylene		Xylene(s)	
Bromodichloromethane		Bromobenzene	
1,1,2 Trichloroethane		Chlorotoluene(s)	
Chlorodibromomethane		1,3,5 Trimethylbenzene	
Tetrachloroethylene		1,2,4 Trimethylbenzene	
Bromoform		m,p-Dichlorobenzene	
1,1,2,2 Tetrachloroethane		o-Dichlorobenzene	
Octane		p-Diethylbenzene	
Styrene		1,2,4,5 Tetramethylbenzene	
n-Nonane		1,2,4 Trichlorobenzene	
p-Ethyltoluene		1,2,3 Trichlorobenzene	
n-Decane		1,2 Dichloroethane	
n-Undecane		1,1 Dichloroethane	
		1,1 Dichloroethylene	

During transport of the sample from collection point to laborato: the chain of custody must not be broken. The sample should be deli by the sample collector or a designated representative who will sig for the receipt, integrity, and transfer of the sample during shipme

	SIGNATURE	AFFILIATION	DATE	TIME
1. Collected by	Eric [illegible]	SCDHS	7-9-85	11:0
2. Transfered to	Kenneth M. Hill	SCPHL	7-9-85	3:30
3. Transfered to				
4. Transfered to				

100

Appendix 1.1-11

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
225A MAIN STREET, FARMINGDALE, N.Y. 11735 • 516-694-3410

October 24, 1984

OCT 26 1984

SUFFOLK COUNTY DEPT. HEALTH SERVICES

Paul Creditor, Esq.
Sarisohn, Sarisohn, Carner,
Steindler, Creditor & LeBow
350 Veterans Highway
Commack, NY 11725

Re: Commercial Envelope Manufacturing Co.

Dear Mr. Creditor:

Together with one of our engineers, we made a preliminary inspection of the Commercial Envelope Manufacturing facility on Friday, October 19. At that time we observed water oozing from the ground in the vicinity of the alleged air conditioner leaching basin. Aside from standing surface water in the vicinity of the pits east of the incinerator, there appeared to be no other discharged water.

Yesterday I received a call from Ms. Joanne Johnson of the Suffolk County Health Department, requesting that we visit the plant together. We arrived there at 1 PM. The previous night there had been heavy rain.

We observed purple colored water bubbling up from one of the pits, and the surrounding ground was flooded. The bubbling up water could not have come from standing stormwater, because the water elevation in the surrounding storm basins was several feet below grade. Clear water was sheeting out from the air conditioner basin. Water was trickling out of the two roof drains on to the ground.

In my presence Ms. Johnson dye tested the hand-wash sink in the factory and the sump in the photo room. Dye did not appear in either the purple effluent or in the inside holding tank. We spent considerable time trying to trace waste lines, but we could not account for the disappearance of the dye.

Ms. Johnson gave me copies of the organic analyses of water taken from the pits (the county is sending you copies by registered mail). High concentrations of organic solvents are shown, of the types used in printing inks. She told me that she called the manufacturers of the inks used, and none of them manufacture water based inks. I suspect that the inks that you are using may be of an emulsion type which is miscible with water, but which still contain organic components. I have asked Mr. Brannigan to obtain the specification sheets on all of the products used, and I urge you to expedite this. If he is unable, we will inventory the materials and

Melville, New York • Farmingdale, New York • Riverhead, New York

contact the manufacturer. This information must be included in the report.

Commercial Envelope has a serious problem with the existing pools. There is definitely an illegal discharge! As it claimed that the factory is not utilizing the pools, I urge the company to immediately engage the services of a licensed industrial waste contractor to properly remove the material therein and fill the pools. Failure to secure the pools can only result in future violations. As the work will have to be done eventually, it would be advantageous to do it right now!

The contractor must also excavate and trace any waste line back to the building, so that the discharge from the sinks can be found. It is important that we and the County be notified when this work is to take place so that the proper observations can be made.

We have some more work to do in accounting for the discharges, which are not as evident as originally presumed. After the excavation and the completion of our inventory, we should get together for a progress meeting.

Yours truly,

HOLZMACHER, McLENDON & MURRELL, P.C.

Hugo D. Freudenthal, Ph.D.

HDF:rms

cc: Joanne Johnson, SCHD
Ira B. Kristel, Pres.

Appendix 1.1-12

1 of 2

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	OWNER/ OFFICER Mr. Ira Kristal	PAGE ___ OF ___
COMPANY NAME Commercial Envelope Mfg. Corp.	CONTACT Mr. Roy Brannigan	TEL.
PLANT ADDRESS Grand Blvd.	VILLAGE Deer Park TOWN Bab N.Y.	ZIP
MAILING ADDRESS		

DATE June 17, 85	TIME 3:00 pm	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

Inspection of Commercial Envelope Mfg. for "certificate to operate" "liquid waste incinerator."

I was accompanied on my inspection by a Mr. Leroy Brannigan of Commercial Envelope. We inspected the waste incinerator, the waste holding tank, + the two general sources of waste to the tank.

At the location of the "ink pot washer" I indicated a [illegible] 1-2" pipe in the floor, sticking up approx. 6-8", + I asked Mr. Brannigan if this was the pipe that the washer had discharged into. That went under the floor (to the East) and had discharged into leaching pools that had been [illegible] + filled. Mr. Brannigan said "yes" ~~that pipe~~ ~~was~~ ~~the~~ that was the discharge site.

David Obry PhD.

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

New ___ Comp ___
Art XII ___ Letter ___
Air ___ Sample ___

NAME OF FACILITY: COMMERCIAL ENV.	OWNER/ OFFICER	PAGE ___ OF ___
COMPANY NAME	CONTACT	TEL.
PLANT ADDRESS: 900 GRAND BLVD	VILLAGE: Deer Park TOWN:	ZIP
MAILING ADDRESS		

SUMMARY of SAMPLES

DATE	TIME	ORIG.	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

1DO 79 - ORGANIC & SLUDGE 1050 AM
AREA 7 - VENT

1103 AM 1 EJ 79 LOADING DOCK MET.; SLUDGE; ORG

1135 AREA 6 2 DO 79 PIPE in hole in front of hold TANK
EAST PIPE (oils)

1134 AREA 6 3 DO 79 PIPE in hole in front of hold TANK
WEST PIPE (oils)

1158 POT WASH M & O 4 DO 79

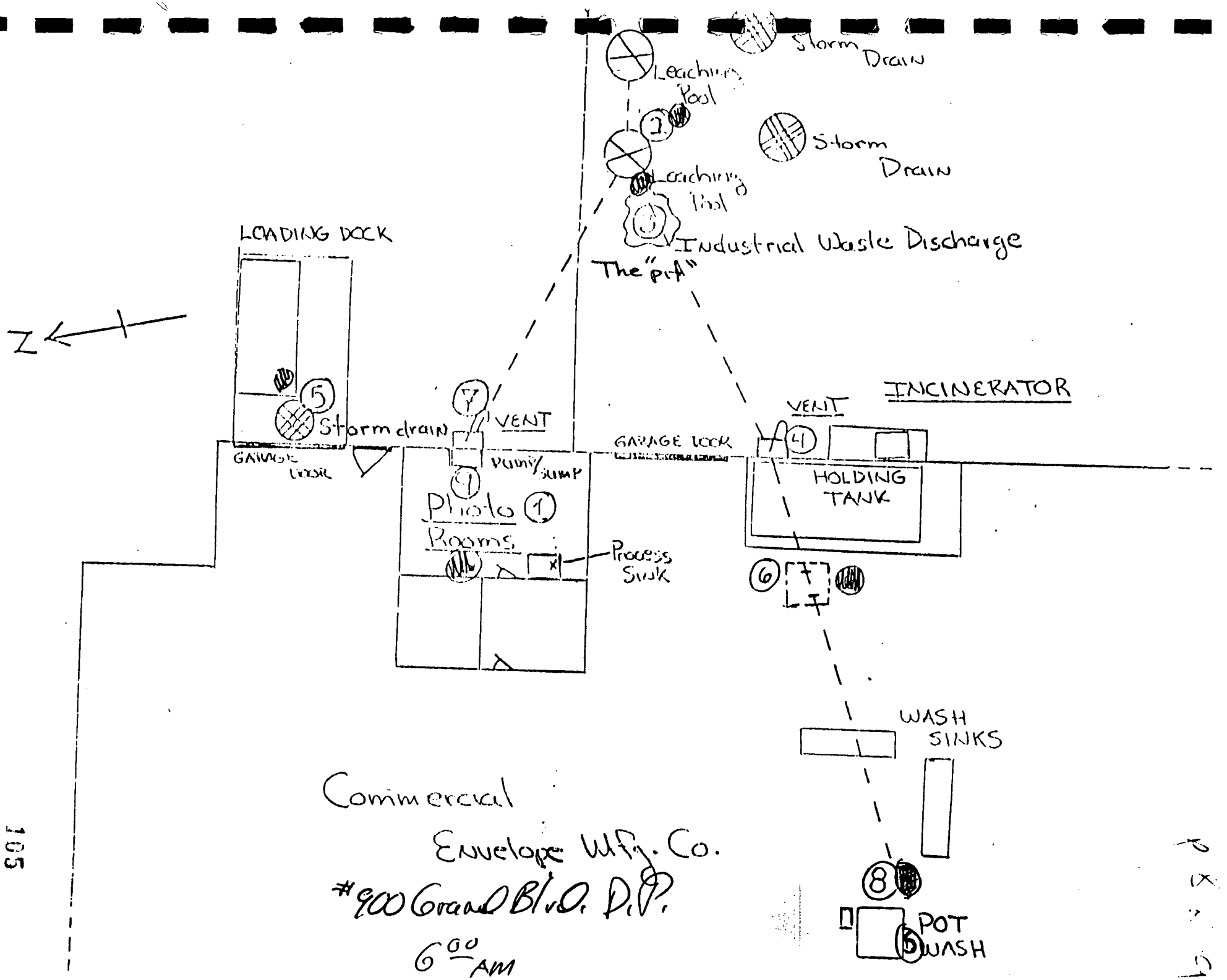
1211 SUMP in Photo Room 5 DO 79 M & O

1224 2 EJ 79 REMOVED SAMPLES from CUT SECT OF PIPE
S & O

118 6 DO 79 SLUDGE from BUB. Pool

145 7 DO 79 O & M LIQUID from BUB Pool

18-234: 9/84


Storm Drain
Leaching Pool
2
Storm Drain
Leaching Pool
3
Industrial Waste Discharge
The "pit"
LOADING DOCK
N
5
Storm drain
GARAGE DOOR
7
VENT
Pump/sump
1
Photo Rooms
Process Sink
GARAGE DOOR
VENT
INCINERATOR
4
HOLDING TANK
6
WASH SINKS
8
POT WASH
Commercial
Envelope Mfg. Co.
#900 Grand Blvd. D.P.
6:00 AM

Appendix 1.1-13

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Received from: Suffolk Co. Dept. of Health

NAME OF FACILITY	OWNER/ OFFICER Mr. Ira Crystal	PAGE 1 OF 3
COMPANY NAME Commercial Envelope Mfg. Corp.	CONTACT	TEL.
PLANT ADDRESS	VILLAGE Deer Park TOWN Bab. N.Y.	ZIP
MAILING ADDRESS 900 Grand Blvd.		

DATE July 9, 85 TIME 6 00 AM ORIG PERIODIC (RE.) (WASTE) NO WASTE H&H SEWAGE SYSTEM PUBLIC (PRIVATE)

SPECIAL NOTE: !!

While dye testing the pipe that connected the "ink pot" wash machine to a leaching pool, which is located on the East side of Commercial Envelope Mfg Corp. some difficulty was encountered. Two bottles of dye (250ml.) had been inserted into a pipe located adjacent to the "ink pot" wash machine. [This same pipe had been previously identified to me as discharging into the leaching pool(s) (two pools in line) located on the East side of Commercial Envelope, by Mr. LeRoy Branagan, Manager at Commercial.]
A garden type hose was connected to a nearby hand wash sink, the value was turned on full, and the end of the hose inserted into the pipe. Within 2-3 minutes the dye (green) was observed at an excavation approx 100 ft. to the East of the "ink pot" wash machine. [This location was the site of a previous excavation that had resulted in the pipe being cut, (a 32ft section was removed, which was later found in the excavation) and plugged with 4.5" wooden plugs. These plugs had previously been removed prior to sampling the material in the pipes.]
The dyed liquid poured out of the Western unplugged line flowed across dirt, then entered the Eastern unplugged line. This flow occured for approx. 5 minutes, then we removed the hose from the pipe and reinserted it in the Eastern unplugged line. Additional green dye was added to the liquid + the flow from the hose continued. — — —

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg Corp.	OWNER OFFICER: Mr. Ira Crystal		PAGE 2 OF 3
COMPANY NAME	CONTACT		TEL.
PLANT ADDRESS	VILLAGE: Deer Park	TOWN: Bab. N.Y.	ZIP
MAILING ADDRESS: 900 Grand Blvd.			

DATE: July 9, 85 | TIME: 6:00 | ORIG. PERIODIC (RE.) | (WASTE) NO WASTE H&H | SEWAGE SYSTEM PUBLIC (PRIVATE)

In all the flow into the Eastern end of the line continued for approx. 7-10 minutes. The dye did not appear in any of the exposed pipes in the suspect leaching pool.

Prior to the search liquid had been observed discharging out of the ground approx. 6ft to the west of the suspect leaching pool. It was thought that this discharge was from a broken pipe which had originally exited in the suspect leaching pool. Therefore a excavation was started at that approximate site of the discharge up thru the ground.

The digging proceeding down thru sand and some wooden debris until a pressurized pocket of gas was encountered. Meter reading for LEL went off the scale, and the immediate area was cleared. After approx. 10-15 min. additional reading were taken, the LEL limit was still present, ~~but only at the~~ but significantly lower, digging continued.

The digging continued until an open area underground was encountered. Thru a 9" opening in the ground a liquid filled pit was observed. The liquid was "dye green" in color. A 2x4" probe was inserted down approx. 6-8ft. with no bottom encountered. Liquid sampled were removed via a plastic scoop. ~~Because of continued high LEL, HowQ2 readings the hole was not widned, but was resealed with~~ A 4-6" white pipe was observed crossing over the pit, this pipe was observed discharging "dye green" liquid into the pit liquid at a steady rate. ~~[illegible]~~

107

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg Corp.	OWNER/OFFICER: Mr. Ira Crystal		PAGE 3 OF 3
COMPANY NAME	CONTACT		TEL.
PLANT ADDRESS	VILLAGE: Deer Park	TOWN: Bob. NY	ZIP
MAILING ADDRESS: 900 Grand Blvd.			

DATE: July 9, 85 | TIME: 6 AM | ORIG. PERIODIC (RE) | (WASTE) | NO WASTE | H&H | SEWAGE SYSTEM | PUBLIC (PRIVATE)

Because of continued elevated LEL readings and steady Low O_2 readings it was decided not to completely expose the "pit". The hole was ~~covered~~ covered with wood and the sand was replaced into the excavation.

~~The discovery of this additional pollution site~~
The discovery of this unknown "pit" at Commercial Envelope raises some ~~un~~ important questions.

① What is the "pit"? (A) is it a leaching pool?
(B) is it a septic tank?
(C) is it a holding tank?

Should the SCDHS now recquire Commercial Envelope to excavate that site fully expose the pit. Identify its nature, and if a pollution site, remove the liquid / sludge present.

DAVID OBRIEN PHS.

108

18-234: 9/84

RE: VIOLATION OF "STIPULATED AGREEMENT" PARA #'s 2, 3 + 4.

Appendix 1.1-15

	PAT PORCELLA	DAVE OBRIG	AL SANTYO	INCIDENT
1981	✓			1 INFORMAL HEARING: → CONSENT ORDER IW81-7 (SUBMIT ENG REPORT + TEST TANKS) CONSENT ORDER SIGNED ON 6/30/81 IN LIEU OF CANCELLING "FORMAL" OF 6
1982	✓			2 FORMAL HEARING HELD to ADDRESS VIOLATION OF CONSENT ORDER IW81-7 → (COMMISSIONERS ORDER - SUBMIT ENG. REPORT + TEST TANKS)
1982	✓			3 INFORMAL HEARING HELD:
1982	✓			RESPONDENT ENTERED INTO "ORDER ON CONSENT IW82-49; (SUBMIT ENG. REPORT + TEST TANKS) RESPONDENT'S VIOLATION OF CONSENT ORDER RESULTED IN SCHEDULING A FORMAL HEARING
1983	✓			"FORMAL HEARING" HELD: "STIPULATED AGREEMENT" ENTERED INTO
				1. BY JULY 16, 1983 COMPLY WITH PARA 2 OF IW82-49 (SUBMITTAL OF REPORT ON SPILL CONTROL MEASURES) SUBMITTED ON JULY 16, 82
				(2) BY JULY 31, 1983 COMPLY WITH PARA #4 OF IW82-49 (SUBMITTAL OF ENG. REPORT ON INDUSTRIAL PROCESS AND ART 12 COMPLIANCE)
				(3) BY JULY 31, 1983 SUBMIT ART 12 APPLICATIONS (STORAGE)
				(4) BY JULY 16, 1983 REMOVE 3 SUBSURFACE TANKS OR TEST THEM.
				5 CIVIL PENALTY OF $1500. SUSPEND $500. PAY $1000
1983				PAUL CREDITOR LETTER: INFORMING OF COMPLIANCE WITH FORMAL HEARING "CONSENT ORDER" (STIPULATION AGREEMENT)
1983				$1000 CHECK RECEIVED. CIVIL PENALTY OF FORMAL HEARING
1983			(✓)	STIPULATION AGREEMENT VIOLATED: PARA # 2, 3
1983		✓		OBRIG INSPECTION: PARA # 2, 3 + 4 NOT COMPLIED WITH.
26, 1983		✓		" " " "
1983				GORDON WATT MEMO: "INITIATE LEGAL ACTION"
1983	✓			PERRELLA LETTER to COMMERCIAL ENV. + P CREDITOR - NOTICE OF VI
1983				JIM CORBIN LETTER to COMMERCIAL ENV. → CORRECTION OF DATE ON COMMIS. ORDER
1983		✓		OBRIG INSPECTION: TANKS FILLED IN.
1983				Creditor letter to Perrella - request to [illegible]
1983	✓			Perrella letter to Creditor - The Dept is [illegible] a new Hearing

at Termin - Notify (omit) 4(a) Fined Para 4 of IW82-49 Letter
Use Para 2

Appendix 1.1-16

Received from:
Suffolk Co. Dept. of
Health

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H.
COMMISSIONER

November 15, 1985

Gold and Watchel
780 Third Avenue, Suite 1401
New York, NY 10017

Attention: Steven Cohen, Esq.

Gentlemen:

This letter is in reverence to the proposed Order on Consent for Commercial Envelope.

In that regard, I am enclosing the Order that we have recently netogiated. Please make arrangements with Mr. Eisenbud of the Suffolk County District Attorney's office to formally execute same.

Very truly yours,

John V. Soderberg, P.E.
Environmental Enforcement

JVS:das

Attachment

cc: Fred Eisenbud, Esq.

15 HORSEBLOCK PLACE • FARMINGVILLE, NEW YORK 11738 • 110 (516) 451-4643

Appendix 1.1-17

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Received from: Suffolk Co. Dept. of Health

Received from: Suffolk Co. Dept. of Health

NAME OF FACILITY		OWNER/ OFFICER	PAGE 1 OF
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT	TEL.
PLANT ADDRESS	900 Grand Blvd.	VILLAGE Deer Park TOWN Bab. N.Y.	ZIP
MAILING ADDRESS	Oct 1, 85		

DATE	TIME	ORIG.	PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
	AM								

Pardon the delay on replys to questions on PO - Industrial Waste Incinerator.

(1) As per conversation with Mr. Gary Miller - representative of H2M, who filled out application. The unit fires the waste into the flame thru a nozzle.

Therefore it would appear that Commercial requires a Permit as an industrial waste treatment facility. Part 374?

My most recent inspection of the facility Sept. 24, 85, revealed a quantity of cinder like material (clinkers) deposited (thrown) on the surface below the unit. I had some suspicions that this material might be from the incinerator unit. In conversations with Mr. Miller of H2M I mentioned the possibility of solid waste from the unit when it is cleaned. He mentioned that he had observed some "bluish" clinker like material extracted from the unit, as his ~~[illegible]~~ presence, when he was on site to inspect the unit. I mentioned that this material is an industrial waste and should be handled in an appropriate manner until its constituents can be ascertained. He agreed that at least an EP Tox test should be [illegible] the material, + prior to that it should be containerized.

Dist. [illegible] PHS
David Cherry

III

LOCATION | FACILITY | EMISSION POINT
7 2 0 0 4 4 2 8 0 0 0 0 1 I

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISION OF AIR
WHITE - REGIONAL OFFICE
PINK - FIELD REP
YELLOW - APPLICANT

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

1 NAME OF OWNER/FIRM: Commercial Envelope Mfg. Co., Inc.

2 NUMBER AND STREET ADDRESS: 900 Grand Boulevard

3 CITY-TOWN-VILLAGE: Deer Park | 4 STATE: NY | 5 ZIP: 11729

6 OWNER CLASSIFICATION: A [ ] COMMERCIAL B [X] INDUSTRIAL C [ ] UTILITY D [ ] FEDERAL E [ ] STATE F [ ] MUNICIPAL G [ ] EDUC INST H [ ] HOSPITAL I [ ] RESIDENTIAL J [ ] OTHER

7 NAME & TITLE OF OWNERS REPRESENTATIVE: Leroy Brannigan, Purchasing Agent | 8 TELEPHONE: (516) 242-2500

9 NAME OF AUTHORIZED AGENT: Holzmacher, McLendon and Murrell, P.C. | 10 TELEPHONE: (516) 752-9060

11 NUMBER AND STREET ADDRESS: 125 Baylis Road, Suite 140

12 CITY-TOWN-VILLAGE: Melville | 13 STATE: NY | 14 ZIP: 11747

15 NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: John J. Molloy | 16 NYS PE OR ARCHITECT LICENSE NO.: 055141 | 17 TELEPHONE: (516) 752-9060

18 SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT

19 FACILITY NAME (IF DIFFERENT FROM OWNER/FIRM): Commercial Envelope Mfg

20 FACILITY LOCATION (NUMBER AND STREET ADDRESS): 900 Grand Boulevard

21 CITY-TOWN-VILLAGE: Deer Park | 22 ZIP: 11729

23 BUILDING NAME OR NUMBER: Main Building | 24 FLOOR NAME OR NUMBER: Ground Floor, Outdoor - East

25 START UP DATE: 7 / 83 (MO / YR) | 26 DRAWING NUMBERS OF PLANS SUBMITTED: DWG C0001

27 PERMIT TO CONSTRUCT: A [ ] NEW SOURCE B [ ] MODIFICATION

28 CERTIFICATE TO OPERATE: A [ ] NEW SOURCE B [ ] MODIFICATION C [X] EXISTING SOURCE

29 EMISSION POINT I.D.	30 GROUND ELEVATION (FT)	31 HEIGHT ABOVE STRUCTURES (FT)	32 STACK HEIGHT (FT)	33 INSIDE DIMENSIONS (IN)	34 EXIT TEMP (°F)	35 EXIT VELOCITY (FT/SEC)	36 EXIT FLOW RATE (ACFM)
0 0 0 0 1	80	10	35	24	1800	8.3	1550

37 SOURCE CODE	38 HRS/DAY	39 DAYS/YR	40 % OPERATION BY SEASON Winter	Spring	Summer	Fall
8190	24	250	25	25	25	25

41 DESCRIBE PROCESS OR UNIT

1 THIS EMISSION POINT IS FOR A GAS FIRE
See enclosed sheet entitled "Process Description"
3
5
7

B Liquid Waste Disposal System™
4
6
8

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42	43	44	45	46 /	47
48	49	50	51	52 /	53

CALCULATIONS

See enclosed "Estimate of Emissions" sheet.

Received from: Suffolk Co. Dept. of Health

Appendix 1.1-18

SECTION F	CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV RATING	EMISSIONS ACTUAL	UNIT	HOW DET	PERMISSIBLE	% CONTROL EFFICIENCY	HOURLY EMISSIONS (LBS/HR) ERP	ACTUAL	ANNUAL EMISSIONS ACTUAL	10^3	
54	Lead Oxide (as Pb)	55 0 7 4 3 9 9 2 1	56 ~~1.0 x 10^{-3}~~	57 ~~[illegible]~~	58 C	59 1.0 x 10^{-3}	60 1	61 6	62 .001	63 0	64 1.0×10^{-3}	65 1.0 x 10^{-3}	66 6.0	67 0	68
69	Silver Salts (as Ag)	70 N Y 0 7 5 0 0 1	71 ~~9.3 x 10^{-4}~~	72 ~~[illegible]~~	73 C	74 9.3 x 10^{-4}	75 1	76 6	77 0.001	78 0	79 9.3×10^{-4}	80 9.3 x 10^{-4}	81 5.6	82 0	83
84	Copper Salts (as Cu)	85 0 7 4 4 0 5 0 8	86 ~~1.04x 10^{-2}~~	87 ~~[illegible]~~	88 C	89 1.04x 10^{-2}	90 1	91 6	92 0.010	93 0	94 1.04×10^{-2}	95 1.04x 10^{-2}	96 6.25	97 1	98
99	Iron Salts (as Fe)	100 N Y 0 7 5 0 0 1	101 ~~6.44x 10^{-2}~~	102 ~~[illegible]~~	103 C	104 6.44x 10^{-2}	105 1	106 6	107 0.064	108 0	109 6.44×10^{-2}	110 6.44x 10^{-2}	111 3.9	112 2	113
114	Particulates	115 N Y 0 7 5 0 0 1	116 ~~[illegible]~~	117 ~~[illegible]~~	118 C	119 1.31	120 1	121 6	122 1.31	123 0	124 1.31	125 1.31	126 7.9	127 3	128
129	Hydrogen Chloride	130 0 7 6 4 7 0 1 0	131 ~~2.3 x 10^{-4}~~	132 ~~[illegible]~~	133 C	134 2.3 x 10^{-4}	135 1	136 6	137 0.000	138 0	139 2.3×10^{-4}	140 2.3 x 10^{-4}	141 1.38	142 0	143

SEC G	SOLID FUEL TYPE	TONS/YR	%S	OIL TYPE	THOUSANDS OF GALLONS/YR	%S	GAS TYPE	THOUSANDS OF CF/YR	BTU/CF	APPLICABLE RULE	APPLICABLE RULE
	144	145	146	147	148	149	150 52	151 9000	152 1050	153 212	154

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS

155 SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: X [signature] DATE: 3/27

AGENCY USE ONLY

156 LOCATION CODE	157 FACILITY ID NO	158 UTM (E)	159 UTM (N)	160 SIC NUMBER	161 DATE APPL RECEIVED	162 DATE APPL REVIEWED	163 REVIEWED BY:
472000	4428	6440	513	02642	04/18/85	5/28/85	Jam

PERMIT TO CONSTRUCT

164 DATE ISSUED	165 EXPIRATION DATE	166 SIGNATURE OF APPROVAL	167 FEE
/ /	/ /		

168
1 DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2 THIS IS NOT A CERTIFICATE TO OPERATE
3 TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

RECOMMENDED ACTION RE: C.O.

169 DATE ISSUED	170 EXPIRATION DATE	171 SIGNATURE OF APPROVAL	172 FEE
~~[illegible]~~	~~[illegible]~~	[signature]	0

173
1 [X] INSPECTED BY David Obry DATE 6/17/85
2 [ ] INSPECTION DISCLOSED DIFFERENCES AS BUILT VS PERMIT, CHANGES INDICATED ON FORM
3 [ ] ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4 [ ] APPLICATION FOR C.O DENIED DATE INITIALED

174. SPECIAL CONDITIONS:

1. None
2.
3.
4.
5.
6.
7.
8.

p 2 of 2

INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Appendix 1.1-19

Commercial Envelope Mfg Co Inc	OWNER/OFFICER Irr Crystal	PAGE 1 OF
	CONTACT Paul Creditor (Atty)	TEL. 242-2500
900 Grand Blvd	VILLAGE Deer Park TOWN Babylon	ZIP 11729

Aug 84	TIME 1:00 pm	ORIG	PERIODIC	RE.	WASTE	NO WASTE	HBM	SEWAGE SYSTEM	PUBLIC PRIVATE

Violation Article 12 Section 1207 Permit to operate
10,000 gallon in ground gasoline tank (unlicensed) on the
east side of the building is NOT REGISTERED with the county.

Violation Article 12 Section 1215
Drum storage area on the west side of has not been registered
with the county. Drums are not stored in a proper manner so as
to permit proper inspection by county.
Any "sludge" removed from the incinerator unit on the east
side of the building must be drumed & hauled by a NY
State lic. scavenger, NOT placed on the ground area.

Facility has not as of this date submitted an engineering
report as per consent order.

Violation Article 10 Section 1006
The following units are operating in violation of article 10
section 1006; operating without certificate to operate.
Washing machine
Cyclone
Baler

Violation Article 12 Section 1207
2000 gallon waste holding tank (above ground) on the
east side of the building is NOT REGISTERED with
the county.
Violation Article 12 Section 1215 Drum storage on west
side of Building of ≅ 50-60 x 55 gal drums Robertson
Carlson Inks.
Violation Article 12 Section 1215 Tractor trailer filled with
75-100 x 55 gallon drums. Unable to determine entire
contents. (Some labeled "61-CR", Cellulose Nitrate Solution "Inks".

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Received from: Suffolk Co. Dept. of Health

...mercial Envelope Mfg Co. Inc	OWNER/ OFFICER IRA Crystal	PAGE 1 OF
	CONTACT	TEL. 242-2500
... Grand Blvd	VILLAGE Deer Park TOWN Babylon	ZIP 11729

...84	TIME 1:00 pm	ORIG.	PERIODIC	(RE.)	(WASTE)	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

...00 gal & ≅ 2000 gal holding tanks for "glue" on the ... side of building (above ground) not registered with ...unty, & not in compliance with Article 12. (1215, 1207)

...s (2x) in Dark Room area are not discharging to 2000 gallon waste tank on the east side of the building ...est (using green dye) conducted, 1 bottle of powdered ...sed, did not appear in tank, observed for ≅ 2 hrs.

...flowing "pool" on the east side of the building, material ...dy white in color & draining to a storm drain, ...e is foul) Presently will be called a violation of ...icle 2 section VB; discharge of deleterious materials.

Anne Johnson

[signature]

[signature]

Appendix 1.1-20

SUFFOLK COUNTY DEPARTMENT OF HEALTH S. IC
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Received from: Suffolk Co. Dept. of Health

NAME OF FACILITY		OWNER/ OFFICER Mr. Ira Crystal	PAGE 1 OF ___
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT Mr. Steve Cohen	TEL.
PLANT ADDRESS	Grand Blvd.	VILLAGE Deer Park TOWN Babylon N.Y.	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG.	PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC / PRIVATE
Sept 23, 85	1:00 pm								

1) New Building (Warehouse)

SW Rear Area.

1x 55gal. drum SAE 40 W
1x 55gal drum DTE Oil Heavy medium
2x 55gal drum Ethylene glycol.

North End New Bld.

Printing Area. →

1x 55gal. drum Multilith "blanket wash" contains perc.
1x 55gal. garbage can "waste"
1x 55gal. drum waste ink.
2x 55gal. drums Derruchem (cleaner)

2) Old Bld

Eastside → 8x 55gal drums "empty lube oil drums"

8x 55gal. drums open top closed" unknown material.
1x 55gal "dextron" hydraulic oil

West side 5x 55gal drums partially full lube oil.

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER Mr. Ira Crystal	PAGE 2 OF ___
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT Mr. Steve Cohen	TEL.
PLANT ADDRESS	Grand Blvd.	VILLAGE Deer Park TOWN Babylon NY	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG.	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC / PRIVATE
Sept 23, 85	1 00 pm								

Outside West Side

1) Tractor trailer → approx. 30-50 x 55 gal unknown waste drums.

2) Flamable storage Bld → 17 x 55 gal. "flamable liquid"
outside Bld. 8 x 55 gal. " " " "

3) 3 x 10,000 LG tanks "gasoline" unleaded.

Boiler House

1) 11 x 55 gal. drums "motor oil", "Kerosene" partially full, to full, on gnd. outside.

2) 2x glue holding tanks, 2000 gal. + 4000 gal.

3) liquid discharging to sump SW corner & discharged required SPDES Permit.

4) 7 x 55 gal. drums. hydraulic oil, DTE heavy med.,

5) middle of floor, 4" pipe into floor, pink liquid in pipe?

Ink Pot Wash machine - may require Art 12, spill containment.

Middle Main Plant Area. approx 50 x 55 gal. drums. unknown material.

117

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER Mr. Ira Crystal	PAGE 3 OF ___
COMPANY NAME Commercial Envelope Mfg Corp.		CONTACT Mr. Steve Cohen	TEL.
PLANT ADDRESS Grand Blvd.	VILLAGE Deer Park	TOWN Bob NY	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG. PERIODIC RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
Sept. 23, 85	1:00 PM						

Ink Waste Holding tank - register with SCDHS.

Out Side East Side Bld.

① hidden pool. → remove liquid

② area under compactor - liquid filled, test + scavenge.

③ 3x old industrial waste holding tanks.

NE Corner Inside Bld.

approx 60 x 55 gal drums waste ink

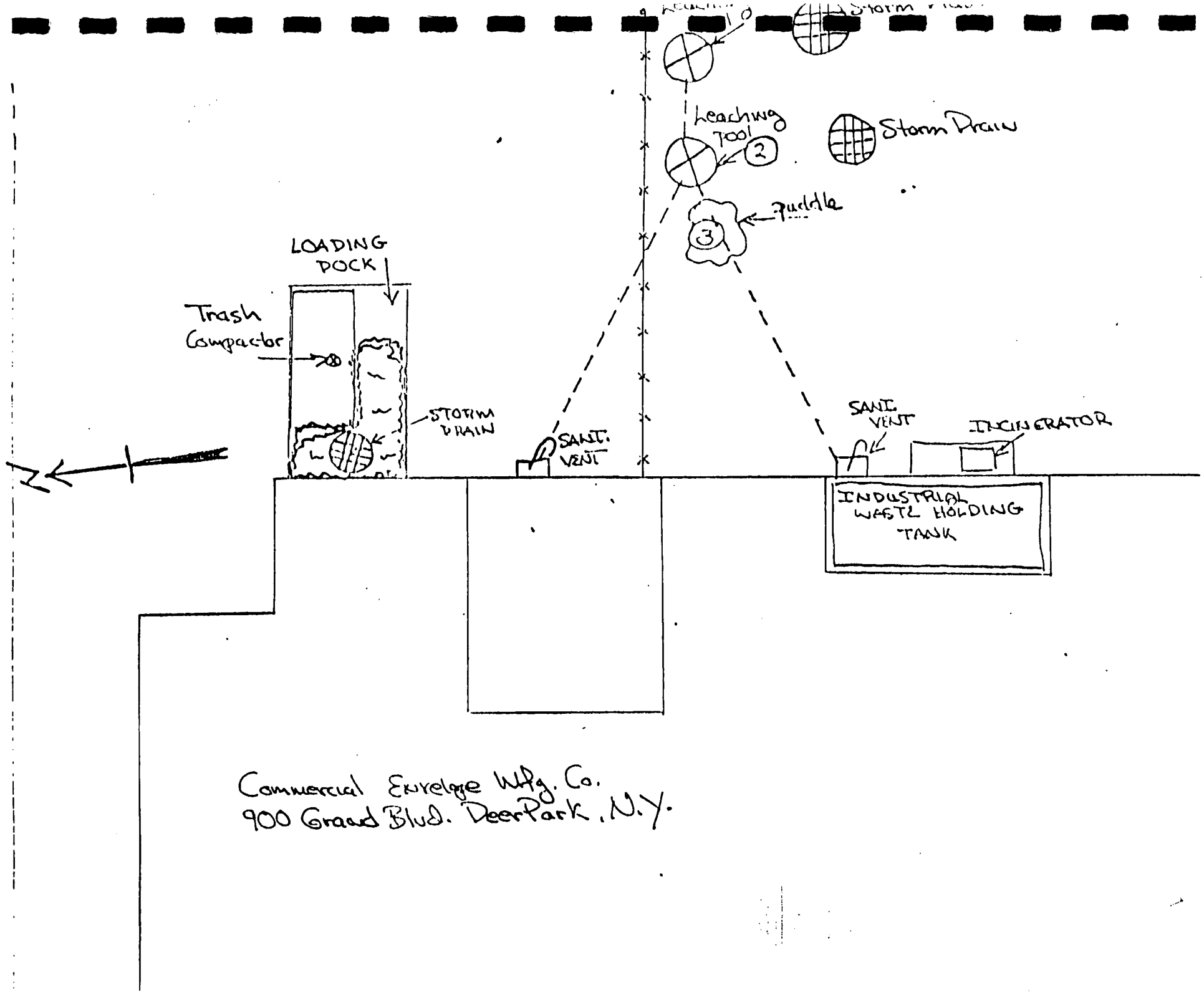
Examination witnessed by:

Steven Cohen

David Obery PHS

118

18-234: 9/84


Leaching Pool
2
Storm Drain
Puddle
3
LOADING DOCK
Trash Compactor
STORM DRAIN
SANI. VENT
SANI. VENT
INCINERATOR
INDUSTRIAL WASTE HOLDING TANK
Commercial Envelope Mfg. Co.
900 Grand Blvd. Deer Park, N.Y.

Appendix 1.1-21

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	I	OWNER/ OFFICER	PAGE 1 OF 4
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT	TEL.
PLANT ADDRESS	400 ~~Grand Blvd.~~	VILLAGE Deer Park TOWN Babylon NY	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG.	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC / PRIVATE
Oct 3, 85	1:45pm								

Items for Consent Order

A. New Building

1. Rear of Bldg. South West corner, drum storage area of lube oil + anti freeze; register + comply with provisions of SCSC Article 12.
2. Front of Bldg. North end, printing area, drum storage in area of waste ink + press wash; register + comply with provisions of SCSC Article 12.

In general this Bldg has sufficient quantity of drums to require a Permitted Drum storage area.

B. Old Building

1. Numerous drums containing "Dextron" hydraulic oil + lube oil scattered thru out the building. There is sufficient quantity of this particular material to require a centralized Permitted Drum storage area, which will comply with all the provisions of SCSC Article 12.

2. Outside - Southwest side of Bldg. a trailer truck body which contains numerous, full, 55 gal. drums of unknown material; register + comply with SCSC Article 12.

18-234 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE 2 OF 4
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT	TEL.
PLANT ADDRESS	900 Grand Blvd. VILLAGE Deer Park	TOWN Bab. N.Y.	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG	PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
Oct. 3, 85	AM/PM								

B. Old Building

3. Attached drum storage shed, middle West side of Bld., Register + comply with SCSC Article 12.

4. 2x 10,000 gal. petroleum storage tanks, register + comply with SCSC Article 12.

5. Boiler Room - West side, 2x above ground glue holding tanks, register + comply with SCSC Article 12.

6. Printing area - central floor area - ink pot washing machine, register + comply with SCSC Article 12.

7. Printing area - central floor area - ink drums storage, register + comply with SCSC Article 12.

8. East side of printing area, 2000 gal. waste ink storage tank, register + comply with SCSC Article 12.

9. Northeast corner - next to loading dock, drum storage of waste + raw ink, register + comply with SCSC Article 12.

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	OWNER/ OFFICER	PAGE 3 OF 4
COMPANY NAME Commercial Envelope Mfg Corp.	CONTACT	TEL.
PLANT ADDRESS 900 Grand Blvd.	VILLAGE Deer Park TOWN Bab. N.Y.	ZIP
MAILING ADDRESS		

DATE	TIME	ORIG. PERIODIC RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
Oct. 3, 85	AM/PM						

C. General

1) Industrial waste holding tank + incinerator operation may fall under prom recquire compliance with provisions of 6NYCRR, parts 371-73, written inquiries must be made to NYSDEC + compliance with any pertinant regulation(s) must be achieved.

2) Boiler Room - pit in Southwest corner containing active discharge of water, in writting explain process, and expected compliance with appropriate State or County Environmental regulations.

3) Round hole in center of Boiler Rm. by inspection contained red oil like substance, in writting explain situation.

D. Clean Up.

1) Remove deliterious material + liquid from loading dock ramp area, as previously directed by SCDHS.

2) Remove toxic + hazardous material from underground pit + fill in with clean fill as previously directed by SCDHS.

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
75 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE 4 OF 4
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT	TEL.
PLANT ADDRESS / MAILING ADDRESS	900 Grand Blvd. VILLAGE Deer Park TOWN Babylon N.Y.		ZIP

DATE	TIME	ORIG	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC / PRIVATE
Oct. 3 85	AM/PM								

P. Clean Up.

3) Remove three (3) underground INK waste tanks, located on the East side of the Old Bld. as previously directed by SCDHS.

4) Conduct Ground Water Study.

David Obry PHS

18-234: 9/84

Appendix 1.1-22

Received from:
Suffolk Co. Dept. of
Health

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. [X] Show to whom, date and address of delivery.
2. [ ] Restricted Delivery.

3. Article Addressed to:
Commercial Envelope Mfg. Corp.
900 Grand Boulevard
Deer Park, New York 11729

4. Type of Service:
[ ] Registered [ ] Insured
[X] Certified [ ] COD
[ ] Express Mail

Article Number
P 623 150 220

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

P 623 150 220

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to
Commercial Envelope
Street and No.
900 Grand Blvd.
P.O., State and ZIP Code
Deer Park, NY 11729

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	9/26/85

PS Form 3800, Feb. 1982 * U.S.G.P.O. 1983-403-517

COUNTY OF SUFFOLK

I

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H.
COMMISSIONER

CERTIFIED MAIL-R.R.R.
P 623 150 220

SECOND NOTICE

September 26, 1985

Commercial Envelope Manufacturing Corp.
900 Grand Boulevard
Deer Park, New York 11729

Attention: Mr. Ira Kristal, President

Re: Pump Out of Contaminated Liquid

Gentlemen:

On July 7, 1985, samples taken from the underground cache of liquid on the east side of your building were collected by a representative of this department. The laboratory analysis performed by this department revealed that the liquid contained the following:

Methylene chloride	180 ppb	Ethylbenzene	52 ppb
1,1,2 Trichloroethylene	33 ppb	Xylene(s)	500 ppb
p-Ethyltoluene	210 ppb	1,3,5 Trimethylbenzene	190 ppb
n-Undecane	130 ppb	1,2,4 Trimethylbenzene	430 ppb
n-Decane	190 ppb	p-Diethylbenzene	98 ppb
cis-Dichloroethylene	110 ppb	1,2,4,5 Tetramethylbenzene	64 ppb
Toluene	970 ppb		

Due to the toxic nature of this discharge, you are again directed to have the aforementioned liquid immediately pumped and sludge removed by an industrial waste scavenger. The resulting hole must be filled in with clean fill to grade. A list of approved scavengers may be obtained by calling the Office of Solid Waste of the New York State Department of Environmental Conservation, telephone number 516-751-7900. Please note: That each day these contaminants are allowed to leach out of the pool, you may be subject to a $500 civil penalty under the Suffolk County Sanitary Code.

(continued . . .)

CRSE BLOCK PLACE • FARMINGVILLE, NEW YORK 11738 • (516) 451- 4628

You are directed to notify this office at least three (3) weekdays (Monday through Friday) prior to the pumping of these pools so that an inspector may witness this operation. Please note that the hiring of a cesspool pumping service which is not licensed to haul toxic industrial waste is a violation of State and County law and may subject both you and the non-licensed hauler to civil liability (fines). It is your responsibility to determine if the scavenger is licensed to haul industrial waste.

You should also note that scavenger fees for removal of toxic materials may vary between scavengers. You may wish to secure written estimates for your clean out. However, this is not to be construed that the department will accept tardiness in your getting the contaminated leaching facility cleaned out.

If you have any questions, please call me at 516-431-4628.

Very truly yours,

Frank M. Randall
Supervisor
Inspectional Services

FMR/lc
Attachment

Appendix 1.2-1

GREENLAWN QUADRANGLE
NEW YORK–SUFFOLK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 10 FEET

Legend

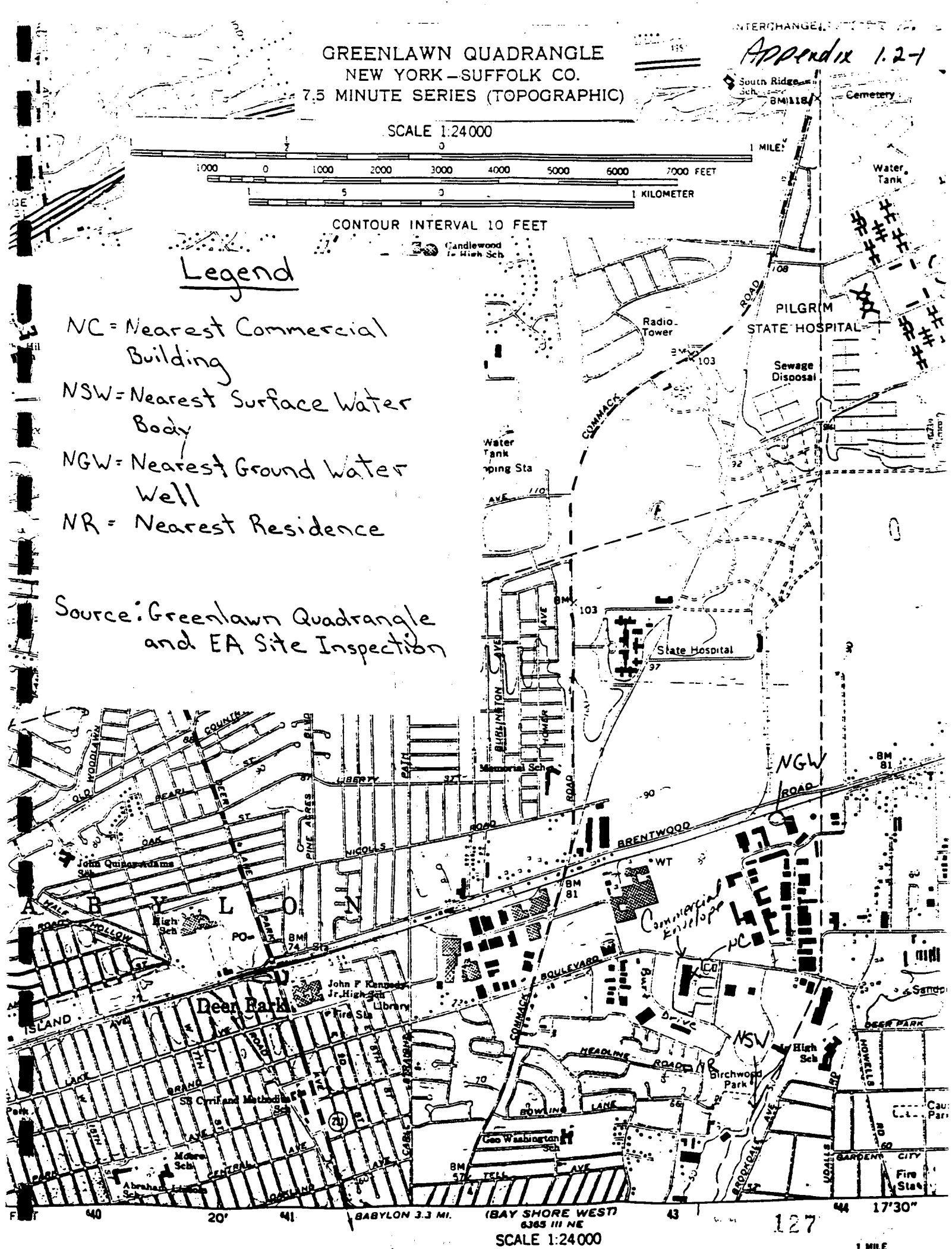
NC = Nearest Commercial Building

NSW = Nearest Surface Water Body

NGW = Nearest Ground Water Well

NR = Nearest Residence

Source: Greenlawn Quadrangle and EA Site Inspection



Appendix 1.3-4

Hydrogeology of the Huntington-Smithtown area Suffolk County, New York

By E. R. LUBKE

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1669-D

Prepared in cooperation with the Suffolk County Board of Supervisors, the Suffolk County Water Authority, and the New York Water Resources Commission

UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON : 1964

foot, and are commonly masked by fluctuations of larger amplitude. Cyclical fluctuations in pressure also result from ocean tides, particularly in wells screened in the intermediate and deep aquifers near Long Island Sound. For example, at well S2020 located on a promontory between Duck Island Harbor and Northport Bay and screened in the deep aquifer, water-level fluctuations caused by tidal loading have a daily amplitude of as much as 3 feet between high and low tide. Tidal changes in Lloyd and Cold Spring Harbors also influence the water levels of wells S9 and S4466, both of which are screened in the deep aquifer.

RECHARGE

All the fresh water in the ground-water reservoir of the project area, as well as the rest of Long Island, is derived from precipitation. However, only a part of the total precipitation that falls reaches the water table. The amount which percolates down to the water table and recharges the reservoir is the residual of the total precipitation not returned to the atmosphere by evapotranspiration or lost to the sea by overland runoff. Owing to the highly pervious nature of the soil and the substrata and to the gentle slopes of the land surface, infiltration is relatively high. Of an average annual precipitation on the project area of 49 inches, 21 inches, or about 43 percent, is estimated to reach the water table.

The catchment surface on which recharge presumably takes place includes most of the land area of the project, or about 146 square miles. This catchment includes Lloyd and Eatons Necks but does not include an additional 7 square miles of high water table and tidal marshes which fringe the northern shoreline. A considerable part of the catchment area, however, is made impervious by buildings and pavements, but much of the runoff from such covered areas is recovered in storm water disposal (recharge) basins or large-diameter diffusion wells. The natural recharge from precipitation on the project area, exclusive of the high water-table areas, the tidal marshes and of Lloyd and Eatons Necks, is estimated to average about 140 mgd (million gallons per day). In addition, the recharge on Lloyd Neck is estimated to average about 5 mgd and on Eatons Neck about 2 mgd. The total for the project area then would be about 147 mgd. The rate of natural recharge varies greatly from season to season and from year to year depending on such factors as evapotranspiration, air and soil temperatures, soil-moisture conditions, and the nature and seasonal distribution of precipitation. During dry years, recharge is substantially less than average, and conversely in wet years it is more.

Natural replenishment of the intermediate and deep aquifers takes place entirely by downward movement of water from the shallow aquifer through discontinuities in clayey and silty beds and probably directly by slow movement through these aquicludes. Recharge of the intermediate aquifer probably occurs chiefly in the areas where the water table lies above an altitude of about 60 feet (pl. 5). The deep aquifer, in turn, receives recharge by downward leakage from the intermediate aquifer through an extensive aquiclude formed chiefly by the clay member of the Raritan formation. This recharge, which probably proceeds at a very slow rate, occurs chiefly where the piezometric surface of the intermediate aquifer lies above an altitude of about 60 feet (fig. 6).

Artificial recharge of the ground-water reservoir is effected by means of cesspools and septic tanks, which ultimately receive most of the water pumped from public-supply and domestic wells. For example, during 1957 an estimated average of about 9.8 mgd was returned to the ground by this means in the project area, and at the same time about 2.5 mgd was discharged directly into Long Island Sound through sewage disposal systems at the villages of Huntington and Northport and at Kings Park State Hospital. Also, as required by law, an average of about 0.7 mgd of water pumped from privately owned wells for industrial and cooling purposes during 1957 was returned to the ground through sumps and diffusion wells.

MOVEMENT

In the ground-water reservoir, water moves vertically and laterally from points of high head to points of low head along flow lines whose direction is normal to the contour lines shown for the water table (pl. 5) and the piezometric surfaces (figs. 6 and 9). Water in the shallow aquifer flows away from the two major highs on the main watertable divide of Long Island, represented by areas above the 70 foot watertable contour in south-central Huntington and eastern Smithtown (pl. 5). The general directions of ground-water flow are north toward the Long Island Sound, south toward the Atlantic Ocean, and also a pronounced lateral movement toward the trough in the valley of the Nissequogue River. Local directions of flow, which may deviate substantially from these general directions, are indicated by arrows on the water-table contours (pl. 5). Also, the peninsulas of Lloyd, Eatons, and Little Necks each contain a ground-water mound in the shallow aquifer and from the crests of these mounds the shallow ground water moves laterally outward to bounding salt-water bodies. Within the area circumscribed by the 60-foot water-table contour (pl. 5), a downward head differential generally

Appendix 1.3-5
1 of 2

Hydrology of the Babylon-Islip Area Suffolk County Long Island, New York

By E. J. PLUHOWSKI and I. H. KANTROWITZ

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1768

Prepared in cooperation with the Suffolk County Board of Supervisors, Suffolk County Water Authority, and the New York State Water Resources Commission

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 1964

(Brice, Whitaker, and Sawyer, 1956, p. 32). Infiltration rates apparently depend chiefly on the interval between successive floodings, depth of water, and permeability of the basin surface. There are now more than 80 storm-water recharge basins in the Babylon-Islip area, and the number may be expected to increase as urbanization continues. The effectiveness of the basins as a means of recharging storm water to the ground-water reservoir from a suburban area is probably comparable to that of natural surface conditions prior to urbanization (Brice, Whitaker, and Sawyer, 1956, p. 2).

Public sanitary-sewer systems on Long Island discharge their effluent directly into tidewater. Because there are no such systems in the Babylon-Islip area (1961), theoretically all water withdrawn from the ground-water reservoir is returned to the ground. Two large sewage-leaching beds serve Pilgrim and Central Islip State Hospitals, and several smaller ones are at other institutions. The balance of domestic sewage is returned to the ground through cesspools. Water pumped for industrial purposes is usually returned through diffusion wells and cesspools. A small amount of industrial pumpage containing contaminants is discharged into tidewater to avoid pollution of ground-water supplies.

Artificial recharge in the Babylon-Islip area counters the effect of urbanization by restoring the natural rate of infiltration of precipitation through the use of recharge basins and by returning most of the water pumped.

Because it is not practical to measure directly the rate of recharge to the ground-water reservoir, recharge must be determined by indirect methods. An approximate value for recharge is obtained by subtracting evapotranspiration losses and direct runoff from precipitation. The recharge to the ground-water reservoir in the Babylon Islip area as determined by this method is:

	Approximate annual rate (inches)	
Precipitation		46
Evapotranspiration	21	
Direct runoff	1	
Total water loss		22
Recharge to ground-water reservoir		24

A recharge rate of 24 inches per year is equivalent to 1.1 mgd (million gallons per day) per sq mi or an annual total of about 215 mgd for the Babylon-Islip area. The bulk of this recharge occurs during late fall, winter, and early spring, when evapotranspiration is at a minimum.

Appendix 1.5-2

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Suffolk Co General, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Dan Fricke Date: 4-7-86

Phone Number: 516 727 7850 Title: Coop Ext. Ag. Agent

Affiliation: Suffolk Co. Coop Ext. Assn Type of Contact: Phone

Address: 264 Griffing Ave. Riverhead NY Person Making Contact: Bud

Communications Summary: I asked Dan questions about irrigation practices in Suffolk Co. ie could Coop Ext. identify sources of irrigation water (wells + surface) and tell me for all irrigated ~~acreage~~ acreage ... which was in food production or dairy farms?

He said that all irrigation wells were supposed to be registered with the State and that perhaps SCDHS had the maps to indicate location and number (#) (Joe Bair?) or (Steve Carey)

* He said there was no surface water used for irrigation on the Island.

He said that once we had located all the wells within required distance of sites; we would have to talk to Coop Ext about each well to find out about the use of the land; very time consuming process.

(see over for additional space)

Signature: William Gorny

Appendix 1.5-3

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Suffolk Co. General Files
( ) _____, ( ) _____
( ) Author

Person Contacted: Steve Carey Date: 4-7-86

Phone Number: 516 348 2893 Title: Chief

Affiliation: SCDHS Groundwater Section Type of Contact: Phone

Address: 225 Rabro Dr. Person Making Contact: Bill Goring
Hauppauge, NY

Communications Summary: I asked him question about source of irrigation water for farm land in food production ---

Steve said wells greater than 45 gpm were registered by NYSDEC Reg 1 except that farms were mostly exempted.

He suggested I contact Doug Pica NYSDEC for information.

(see over for additional space)

Signature: William Goring

Appendix 1.5-4

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Suffolk Co. General Files ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Doug Pica Date: 4-7-86

Phone Number: 516 751-7900 Title: _____

Affiliation: NYSDEC Reg 1 Water Unit Type of Contact: Phone

Address: Stonybrook NY Person Making Contact: Bud Gorny

Communications Summary: I asked questions about irrigation practices on Long Island and about regulations on wells (irrigation supply).

Doug said DEC regulated wells that supplied irrigation water to golf courses but did not regulate any farm supply wells because they are exempted from regulation. He therefore has no info on farm land irrigation sources.

(see over for additional space)

Signature: William Gorny

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: _____ SITE CODE: 152103

NAME OF SITE: Commercial Envelope Mfg. Co., Inc. REGION: I

STREET ADDRESS: 900 Grand Boulevard

TOWN/CITY: Deer Park COUNTY: Suffolk

NAME OF CURRENT OWNER OF SITE: Town of Babylon Industrial Development Agency

ADDRESS OF CURRENT OWNER OF SITE: 200 E. Sunrise Highway, Lindenhurst, New York 11757

TYPE OF SITE: OPEN DUMP [X] STRUCTURE [X] LAGOON [ ]
LANDFILL [ ] TREATMENT POND [ ]

ESTIMATED SIZE: 1 ACRES

SITE DESCRIPTION:

The envelope manufacturing operation has been active from 1976 until the present and generates various hazardous substances including waste solvents, glues, and ink.

Three areas at the site have been associated with hazardous waste. Three leaching pools received printing ink and photo wastes containing mixed heavy metal and solvent wastes. Solvent and lead-contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held in 3 below grade storage tanks.

HAZARDOUS WASTE DISPOSED: CONFIRMED [X] SUSPECTED [ ]

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Methylene Chloride	Unknown
Toluene, Xylene,	
Decane, 1,2,4 Trimethylbenzene	
Copper, Iron, Zinc	
Lead, Chromium	

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 19 ___ TO _____, 19 ___

OWNER(S) DURING PERIOD OF USE: Town of Babylon IDA

SITE OPERATOR DURING PERIOD OF USE: Commercial Envelope Mfg. Co., Inc.

ADDRESS OF SITE OPERATOR: Grand Boulevard, Deer Park, New York 11729

ANALYTICAL DATA AVAILABLE: AIR [ ] SURFACE WATER [ ] GROUNDWATER [ ]
SOIL [x] SEDIMENT [ ] NONE [ ]

CONTRAVENTION OF STANDARDS: GROUNDWATER [ ] DRINKING WATER [ ]
SURFACE WATER [ ] AIR [ ]

SOIL TYPE: Sand and gravel

DEPTH TO GROUNDWATER TABLE: 30 ft

LEGAL ACTION: TYPE: _____ STATE [ ] FEDERAL [ ]

STATUS: IN PROGRESS [ ] COMPLETED [x]

REMEDIAL ACTION: PROPOSED [ ] UNDER DESIGN [ ]
IN PROGRESS [ ] COMPLETED [ ]

NATURE OF ACTION: _____

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Potential ground-water contamination resulting from several years discharge of printing ink and photo waste.

ASSESSMENT OF HEALTH PROBLEMS:

None known or documented.

PERSON(S) COMPLETING THIS FORM:

FOR NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH
NAME EA Science and Technology	NAME _____
TITLE _____	TITLE _____
NAME _____	NAME _____
TITLE _____	TITLE _____
DATE: 4 November 1986	DATE: _____

REFERENCE NO. 20

NUS CORPORATION
A Halliburton Company

Reassess 1/6/93
Mal/a
Lou

FINAL DRAFT
SITE INSPECTION REPORT
COMMERCIAL ENVELOPE MFG. CO. INC.
DEER PARK, NEW YORK

FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION
SUPERFUND DIVISION

001

02-8704-03-SR
REV. NO. 0

FINAL DRAFT
SITE INSPECTION REPORT
COMMERCIAL ENVELOPE MFG. CO. INC.
DEER PARK, NEW YORK

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8704-03
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

SEPTEMBER 21, 1990

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

ANTHONY F. CULMONE JR.
PROJECT MANAGER

JENNIFER LEAHY
SITE MANAGER

REVIEWED/APPROVED BY:

RONALD M. NAMAN
FIT OFFICE MANAGER

1.0 SITE SUMMARY

Commercial Envelope Manufacturing Co., Inc. (CEM) is located in an active industrial/commercial area of Deer Park, Suffolk County, New York in central Long Island. The facility has been in operation since 1976. There are two buildings on a flat 7-acre site. The regional slope of the terrain is to the south. At present CEM occupies only the main building and leases the warehouse building to Pepsi-Cola Co.

Over several years CEM generated and disposed of hazardous waste on site, including solvents, inks, and glues. Numerous inspections by the Suffolk County Department of Health Services (SCDHS) identified four areas of concern, containing elevated levels of solvents and heavy metals: three leaching pools, three underground storage tanks, the area adjacent to the trash compactor, and a 5,800-gallon ink waste spill that occurred in 1981. Several court orders have led to the eventual cleanup of these contaminated areas, under the guidance of the SCDHS. As part of a consent order, CEM was permitted to incinerate lead oxide, silver salts, copper salts, iron salts, particulates, and hydrogen chloride.

Despite this major cleanup effort, groundwater contamination was still a concern. The SCDHS required CEM to install and sample monitoring wells in the upper glacial aquifer. Analytical sampling results taken by SCDHS demonstrated volatile organic contamination. These results prompted the involvement of the U.S. EPA.

NUS Corp. Region 2 FIT performed a site inspection at the CEM site on July 13, 1987. During the site inspection, two soil and three groundwater samples were collected and analyzed for Target Compound List (TCL) parameters. Analyses of soil samples, collected outside of the solvent storage shed, and groundwater samples indicate the presence of inorganic contaminants. Volatiles were detected in groundwater and soil samples. Tetrachloroethene was the only volatile detected in the soil samples . Volatiles were detected in the downgradient groundwater samples at higher concentrations than in the upgradient well samples.

Ref. Nos. 3, 4, 6, 14, 16

SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

01 STATE 02 SITE NUMBER
NY D981184138

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Commercial Envelope Mfg. Co., Inc.

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
900 Grand Boulevard

03 CITY
Deer Park

04 STATE | 05 ZIP CODE | 06 COUNTY | 07 COUNTY CODE | 08 CONG DIST.
NY | 11729 | Suffolk | 103 | 2

09 COORDINATES
LATITUDE 40° 45' 38".N
LONGITUDE 073° 17' 53".W

10 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE _ B. FEDERAL _ C. STATE
_ D. COUNTY _ E. MUNICIPAL _ F. OTHER
_ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION
7 / 13 / 87
MONTH DAY YEAR

02 SITE STATUS
X ACTIVE
_ INACTIVE

03 YEARS OF OPERATION
1976 / Present
BEGINNING YEAR ENDING YEAR
_ UNKNOWN

AGENCY PERFORMING INSPECTION (Check all that apply)
_ A. EPA X B. EPA CONTRACTOR NUS Corp. Region 2 FIT (Name of firm)
_ C. MUNICIPAL _ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
_ E. STATE _ F. STATE CONTRACTOR _____ (Name of firm)
_ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Edward L. Leonard	Environmental Scientist	NUS Corp. FIT 2	(201) 225-6160

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Stephen Maybury	Environmental Scientist	NUS Corp. FIT 2	(201) 225-6160
Pauline Doherty	Toxicologist	NUS Corp. FIT 2	(201) 225-6160
Gerald Gilliland	Technician	NUS Corp. FIT 2	(201) 225-6160
Joseph Murtaugh	Technician	NUS Corp. FIT 2	(201) 225-6160
Dan de Bruijn	Technician	NUS Corp. FIT 2	(201) 225-6160

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Steven Cohen	Lawyer	Gold and Wachtel 10 East 53rd Street New York, NY 10022	(212) 223-3311
William Wachtel	Lawyer	Gold and Wachtel 10 East 53rd Street New York, NY 10022	(212) 223-3311
Nicholas Andrianas	Engineer	Eder Associates 85 Forest Avenue Locust Valley, NY 11560	(516) 671-8440
Leroy Brannagan	Plant Manager	Commercial Envelope Mfg. Co. 900 Grand Boulevard Deer Park, NY 11729	(516) 242-2500

17 ACCESS GAINED BY (Check one)
X PERMISSION
_ WARRANT

18 TIME OF INSPECTION
0930 hrs.

19 WEATHER CONDITIONS
Hot, hazy, and humid. Air temperature 75 - 90°F. Steady winds southeast 5-10 mph.

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Amy Brochu	U.S. EPA	(201) 906-6802

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jennifer O. Leahy	Region 2 FIT	NUS Corp.	(201) 225-6160	9 /17/ 90 MONTH DAY YEAR

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- _ A. SOLID
- _ B. POWDER, FINES
- X C. SLUDGE
- _ D. OTHER _____ (Specify)
- X E. SLURRY
- _ F. LIQUID
- _ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS _____
- NO. OF DRUMS 131

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- _ B. CORROSIVE
- _ C. RADIOACTIVE
- X D. PERSISTENT
- X E. SOLUBLE
- _ F. INFECTIOUS
- X G. FLAMMABLE
- _ H. IGNITABLE
- X I. HIGHLY VOLATILE
- _ J. EXPLOSIVE
- _ K. REACTIVE
- _ L. INCOMPATIBLE
- _ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	131	55-gallon drums	Three underground storage tanks and three leaching pools were illegally used to store and dispose of hazardous waste. In addition, approximately 5,835 gallons of hazardous waste were spilled on the ground in 1981.
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown	Unknown	
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown	Unknown	
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown	Unknown	

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
Analytical results from Geraghty & Miller, February 24, 1986 and March 16, 1987.					
SOL	1,2-Dichloroethene	156-60-5	Unknown	610	ug/L
SOL	Tetrachloroethene	127-18-4	Leaching Pools	5	ug/L
SOL	Toluene	108-88-3	Leaching Pools	5	ug/L
SOL	1,1,1-Trichloroethane	71-55-6	Leaching Pools	2	ug/L
SOL	Vinyl Chloride	75-01-4	Unknown	2	ug/L
SOL	Xylenes (Total)	1330-20-7	Leaching Pools	120	ug/L
Analytical results from SCHS inspection on January 30, 1981, August 29, 1984, October 24, 1984 and February 27, 1986.					
SOL	Methylene Chloride	75-09-2	Leaching Pools	180	ug/L
MES	Chromium (Total)	7440-47-3	Spill	43	mg/L
MES	Copper	7440-50-8	Underground Tanks	865	mg/L
MES	Lead	7439-92-1	Spill	210	mg/L
MES	Silver	7440-22-4	Spill	2.1	mg/L
MES	Zinc	7440-66-6	Spill	11	mg/L
Analytical results from NUS Region 2 FIT site inspection July 13, 1987.					
SOL	Vinyl Chloride	75-01-04	Unknown	7.9J	ug/L
SOL	1,1,1-Trichloroethane	71-55-6	Leaching Pools	2.8J	ug/L
SOL	Tetrachloroethene	127-18-4	Leaching Pools	6.3	ug/kg
PSD	Endosulfan sulfate	1031 07-8	Unknown	110J	ug/kg
MES	Aluminum	7429-90-5	Leaching Pools	65,000	ug/L
MES	Arsenic	7440-38-2	Leaching Pools	74.9	ug/L
MES	Beryllium	7440-41-7	Leaching Pools	6.4	ug/L
MES	Cadmium	7440-43-9	Leaching Pools	20.1	ug/L

J - Compound present below contract-specified detection limits, but above instrument detection limits (IDL).

Cont'd on Attachment 1

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Unknown		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)

NYSDEC, Engineerings Investigations at Inactive Hazardous Waste Sites, Phase I Investigations, Commercial Envelope Mfg. Co., Inc., Site No. 152103, EA Science and Technology, Draft, May 1986.
Suffolk County Department of Health Services (SCHDS) Inspectors Notes, January 15, 1981.
U.S. EPA Contract Laboratory Program, Nanco Labs, Inc., organic analyses, and Chemtech Consulting Group, inorganic analyses, Case No. 7610, Laboratory analysis from NUS Corp. Region 2 FIT Site Inspection conducted on July 13, 1987.
Letter from S. Cohen, of Gold and Wachtel, to J. Wagner, NUS Corp., June 10, 1987.
Suffolk County Health Services Laboratory Chemical Examination of Water, Sewage, Industrial Waste, January 15, 1981 and March 11, 1986.

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
Analytical results from NUS Region 2 FIT site inspection July 13, 1987.					
MES	Chromium	7440-47-3	Leaching Pools	142E	ug/L
MES	Cobalt	7440-48-4	Leaching Pools	98.2	ug/L
MES	Iron	1309-37-1	Leaching Pools	160,000	ug/L
MES	Lead	7439-92-1	Leaching Pools	548	ug/L
MES	Manganese	7439-96-5	Leaching Pools	5,710	ug/L
MES	Silver	7440-22-4	Leaching Pools	43.4	ug/L

E - Value estimated due to laboratory interference.

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 111,300
02 X OBSERVED (DATE: 7/13/87) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Contaminants attributable to the site have been detected in downgradient groundwater samples. Hazardous wastes were discharged into on-site leaching pools and underground storage tanks. In addition, spills of ink waste and a spill adjacent to the trash compactor were noted. Groundwater and soil sample analyses indicate volatile organic compounds (VOCs) and heavy metals. Groundwater is the sole source for potable purposes within 3 miles.

01 X B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for surface water contamination. There is no direct drainage pathway from the site to the nearest body of water; however, the facility slopes toward Sampawams Creek, which is located approximately 2,200 feet south of the site. There are no surface water intakes for potable or irrigation purposes within 3 miles downstream of the site.

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

There is little likelihood of a release to the air. Hazardous substances were detected primarily in the groundwater. Air monitoring readings were detected above background in the vicinity of the solvent storage shed. There were no other readings detected above background in the ambient air at the facility during the NUS Region 2 FIT site inspection.

01 D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

There were no observations during field investigation that indicated a potential for fire/explosive conditions on site.

01 X E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for direct contact with the contaminants to occur. Although a majority of the facility is paved, the north side of the facility and the solvent storage area are not fenced, allowing unauthorized access.

01 X F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: Unknown (ACRES)
02 X OBSERVED (DATE: 7/13/87) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Analyses of soil samples collected on July 13, 1987 NUS Corp. Region 2 FIT indicate the presence of volatile organic, pesticide, and heavy metal contaminants.

01 X G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 111,300
02 OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

The potential exists for drinking water contamination. Contaminants detected in the groundwater were attributable to site activities. Suffolk County drinking water is entirely supplied by groundwater. The nearest public supply well is located approximately 0.75 mile northeast of the site.

01 X H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: Unknown
02 OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for worker exposure. Contaminants were detected in soil samples near the solvent storage shed. The facility is not totally fenced, allowing unauthorized access.

01 X I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 111,300
02 OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

The potential exists for population exposure since groundwater is contaminated. Groundwater is the only source of potable water within 3 miles. There is a potential of exposure through direct contact. Contaminants were detected in surface soil samples. The facility is not entirely fenced, allowing unauthorized access.

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

It is unlikely that there would be any damage to flora. The contamination is predominantly in the groundwater. The site is also predominantly covered by pavement and buildings and is in a suburban commercial/industrial area.

01 K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species) — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

It is unlikely that there would be any damage to fauna. The contamination is predominantly in the groundwater. The site is also predominantly covered by pavement and buildings and is in a suburban commercial/industrial area.

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

It is unlikely that there would be contamination to the food chain. The contamination is predominantly in the groundwater. The site is also predominantly covered by pavement and buildings and is in a suburban commercial/industrial area.

01 X M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums) — 02 X OBSERVED (DATE: 7/9/85) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,992 — 04 NARRATIVE DESCRIPTION

There were three areas of concern with unstable waste containment. There were three leaching pools receiving waste discharge, three underground storage tanks, and an 5,800-gallon spill in 1981. All waste containment areas lacked a diversion or containment system.

01 X N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED

The potential exists for off-site property damage. The regional slope of the terrain is to the south toward a creek. Sample analysis also indicates groundwater contamination which could migrate downgradient from the facility.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION — 02 X OBSERVED (DATE: 8/29/84) _ POTENTIAL _ ALLEGED

Storm runoff from the facility is believed to enter an on-site leaching pool. Analyses of the contents in the storm drain in the loading dock area by the SCDHS demonstrated the presence of several solvents, including methylene chloride, tetrachloroethylene, and toluene. During the NUS Corp. Region 2 FIT investigation on July 13, 1987, there were no containment or diversion features noted around the storage area.

01 X P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION — 02 X OBSERVED (DATE: 7/9/85) _ POTENTIAL _ ALLEGED

Analyses of the the middle leaching pool by the SCDHS demonstrated the presence of several solvents, including methylene chloride, toluene, and xylene. This discharge was not SPDES-permitted.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

The solvent storage shed located on the west side of the building contained approximately 20 55-gallon drums of unknown substances inside the unfenced storage area. There was a stain noted south of the storage area.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 111,300

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Telecon Note: Conversation between Mrs. Bahr, Suffolk County Water Authority, and J. Leahy, NUS Corp., August 15, 1990.
NSYDEC Engineering Investigation of Inactive Hazardous Waste Sites, Phase I Investigation, Commercial Envelope Mfg. Co. Inc., Site No. 152103, EA Science and Technology, Draft, May 1986.
Field Notebook No. 0101, Commercial Envelope Manufacturing Co., Inc., TDD No. 02-8704-03, Site Inspection, NUS Corp. Region 2 FIT, Edison, NJ, July 13, 1987.
Letter from S. Cohen, of Gold and Wachtel, to J. Wagner, NUS Corporation, June 10, 1987.
Suffolk County Department of Health Services (SCHDS) Inspectors Notes, January 15, 1981 and January 25, 1983.
U.S. EPA Contract Laboratory Program Nanco Labs, Inc., organic analyses, and Chemtech Consulting Group, inorganic analyses, Case No. 7610, Laboratory Analysis from NUS Corp. Region 2 FIT Site Inspection conducted on July 13, 1987.
General Sciences Corp., Graphical Exposure Modeling System (GEMS). Landover, Maryland, 1986.
Three Mile Vicinity Map for Commercial Envelope Mfg. Co., Inc. Site based on U.S. Geological Service Topographic Maps, 7.5 minute series, Quadrangles of "Greenlawn, NY," "Bayshore West, NY," and "Central Islip, NY," 1967.
Telecon Note: Conversation between D. Obreg, Suffolk County Health Department, and E. Leonard, NUS Corp., on July 15, 1987.
Letter from W.J. Brandow, Brentwood Water District, to E. Leonard, NUS Corporation, August 25, 1987.
Letter from W.J. Schnickler, Chief Engineer Suffolk County Water Authority, to E. Leonard, NUS Corporation, August 3, 1987.
Letter from S.C. McLenion, P.E., H2M Group, to E. Leonard, NUS Corporation, August 25, 1987.
Telecon Note: Conversation between James Desale, Town of Babylon Highway Dept., and E. Leonard, NUS Corp., June 24, 1987.
Telecon Note: Conversation between Colby Tucker, NYSDEC, and J. Leahy, NUS Corp., August 13, 1990.
Water Quality Regulations Surface Water and Groundwater Classifications and Standards, New York State, Title 6, Codes, Rules and Regulations, Chapter X, Parts 700-705, October 31, 1985.

SITE INSPECTION REPORT
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

01 STATE 02 SITE NUMBER
NY 0981184138

PERMIT INFORMATION

TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
_ A. NPDES				
_ B. UIC				
_ C. AIR				
_ D. RCRA				
_ E. RCRA INTERIM STATUS				
_ F. SPCC PLAN				
X G. STATE (Specify) SPDES	0177113	Unknown	12/7/84	Permit was issued only for cooling water discharge to groundwater. Permit was not renewed.
_ H. LOCAL (Specify)				
X I. OTHER (Specify)	NYD002030690	7/8/80	Unknown	Generator of hazardous wastes.
_ J. NONE				

SITE DESCRIPTION

Storage/Disposal (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
_ A. SURFACE IMPOUNDMENT			X A. INCINERATION	X A. BUILDINGS ON SITE
_ B. PILES			_ B. UNDERGROUND INJECTION	
X C. DRUMS, ABOVE GROUND	Unknown	Unknown	_ C. CHEMICAL/PHYSICAL	2
X D. TANK, ABOVE GROUND	8,000	Gallons	_ D. BIOLOGICAL	06 AREA OF SITE
X E. TANK, BELOW GROUND	8,500	Gallons	_ E. WASTE OIL PROCESSING	
_ F. LANDFILL			_ F. SOLVENT RECOVERY	
_ G. LANDFARM			_ G. OTHER RECYCLING/RECOVERY	7.0
_ H. OPEN DUMP			_ H. OTHER	(Acres)
X I. OTHER Leaching Pools (Specify)	6,200	Gallons	(Specify)	

COMMENTS

In addition to the above, approximately 5,835 gallons of ink waste were spilled on the adjacent property in 1981. This formed a pool approximately 40 feet by 78 feet by 0.25 feet deep. CEM also applied as part of a consent order to receive a permit to operate an incinerator. It is unknown if the permit was granted. Prior to January 1986, an oil distributor mistakenly pumped 9,300 gallons of fuel oil down an observation well. Shortly after, the oil was removed with the soil, and the area was backfilled with sand.

CONTAINMENT

CONTAINMENT OF WASTES (Check one)

_ A. ADEQUATE, SECURE _ B. MODERATE _ C. INADEQUATE, POOR X D. INSECURE, UNSOUND, DANGEROUS

DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Prior to cleanup and permitting by the SCDHS, the following conditions were known to exist:

1) Aboveground drums and tanks in sound condition with no liner or leachate collection system;
2) Belowground tank of unknown condition with no liner or leachate collection system; and
3) Unauthorized leaching pools.

ACCESSIBILITY

WASTE EASILY ACCESSIBLE: _ YES X NO

COMMENTS

The major areas of concern are the former leaching pools, the former underground storage tanks, the area around the trash compactor, and the ink waste spill. All of these areas have been remediated to SCDHS specifications, filled in, and paved over. These areas are not easily accessible to the public or employees. During the NUS Region 2 FIT site inspection, stained soil was observed around the solvent storage shed. The area is not fenced or secured to prevent unauthorized access.

SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Telecon Note: Conversation between D. Obrig, Suffolk County Health Department, and E. Leonard, NUS Corp., July 15, 1987.
Telecon Note: Conversation between G. Watt, SCDH Water Resources and E. Leonard, NUS Corp., July 16, 1987.
NYSDEC, Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigations, Commercial Envelope Mfg. Co., Inc., Site No. 152103, EA Science and Technology, Draft, May 1986.
Field Notebook No. 0101, Commercial Envelope Manufacturing, Co. Inc., TDD No. 02-8704-03, Site Inspection, Corp. Region 2 FIT, Edison, NJ, July 13, 1987.
Suffolk County Department of Health Services Inspectors Notes, January 15, 1981, January 14, 1985, January 25, 1985, February 3, 1986, and August 3, 1984.

SITE INSPECTION REPORT
PART 5 - DEMOGRAPHIC, AND ENVIRONMENTAL DATA

01 STATE 02 SITE NUMBER
NY D981184138

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

02 STATUS

03 DISTANCE TO SITE

	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A. _	B. X	A. _	B. _	C. X	A. 0.75 (mi)
NON-COMMUNITY	C. _	D. X	D. _	E. _	F. _	B. Unknown (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

X A. ONLY SOURCE FOR DRINKING

_ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

_ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)

_ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 111,300

03 DISTANCE TO NEAREST DRINKING WATER WELL: 0.75 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
16.0 (ft)	South	1.0 (ft)	Unknown (gpd)	X YES _ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

There are two aquifers of concern underlying the site, the upper glacial aquifer and Magothy aquifer. These aquifers are hydraulically connected. The surficial Upper Glacial aquifer consists of glacial deposits of stratified sand and gravel in melt-water spillways and outwash plains. The aquifer in this area varies from approximately 100 to 400 feet thick. The Magothy aquifer consists of beds and lenses of fine and coarse sand, containing traces to large amounts of clay and silt intercolated with thin to thick beds and lenses of clay, silt and clayey silty sand. The aquifer's depth in this area varies from approximately 900 to 7,600 feet. Bedrock is composed of crystalline metamorphic and igneous rocks such as schist, gneiss, and granite. The soft clayey zone within bedrock is more than 100 feet thick. The actual depth of bedrock is from the surface to 2,700 feet.

10 RECHARGE AREA

X YES
_ NO

COMMENTS Aquifers are recharged directly by rainwater infiltration.

11. DISCHARGE AREA

_ YES
X NO

COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

X A. RESERVOIR, RECREATION DRINKING WATER SOURCE

_ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES

_ C. COMMERCIAL, INDUSTRIAL

_ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Sampawams Creek	Unknown	Approximately 0.4 (mi)
		(mi)
		(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 9,000 NO. OF PERSONS	B. 47,400 NO. OF PERSONS	C. 111,300 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 0.2 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 13,300

04 DISTANCE TO NEAREST OFF-SITE BUILDING: adjacent property < 0.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site. e.g., rural, village, densely populated urban area)

The site is located within the village of Deer Park in the northeast corner of Babylon Township. Babylon Township is a densely populated suburban area. Huntingtown Township is 1.5 miles to the north, and Islip Township is 0.3 mile to the east.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0981184138

. ENVIRONMENTAL INFORMATION

PERMEABILITY OF UNSATURATED ZONE (Check one)

_ A. 10^{-6} - 10^{-8} cm/sec X B. 10^{-4} - 10^{-6} cm/sec _ C. 10^{-4} - 10^{-3} cm/sec _ D. GREATER THAN 10^{-3} cm/sec

PERMEABILITY OF BEDROCK (Check one)

X A. IMPERMEABLE (Less than 10^{-6} cm/sec) _ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) _ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) _ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

DEPTH TO BEDROCK: 2,700 (ft)
04 DEPTH OF CONTAMINATED SOIL ZONE: 12 (ft)
05 SOIL pH: Unknown

NET PRECIPITATION: 14 (in)
07 ONE YEAR 24 HOUR RAINFALL: 2.75 (in)
08 SLOPE
SITE SLOPE: 1 %
DIRECTION OF SITE SLOPE: South
TERRAIN AVERAGE SLOPE: 1.5 %

FLOOD POTENTIAL
10
SITE IS IN > 500 YEAR FLOODPLAIN _ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. > 2.0 (mi)
OTHER: B. > 1.0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): > 1.0 (mi)
ENDANGERED SPECIES: Not Applicable

LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL: A. 0.0 (mi)
RESIDENTIAL AREAS: NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES: B. 0.2 (mi)
AGRICULTURAL LANDS
PRIME AG LAND: C. 0.7 (mi)
AG LAND: D. 0.5 (mi)

DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site property is relatively level, at an elevation of approximately 75-80 feet above mean sea level. Regional slope of the terrain is southerly. The site is located within an industrial/commercial area, directly north of a large residential community. There are agricultural lands 0.5 mile northeast of the facility.

SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

Telecon Note: Conversation between Mrs. Bahr, Suffolk County Water Authority, and J. Leahy, NUS Corp., August 15, 1990.
NYSDEC Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigations, Commercial Envelope Mfg. Co., Inc., Site No. 152103, EA Science and Technology, Draft, May 1986.
Field Notebook No. 0101, Commercial Envelope Manufacturing, Co., Inc. TDD No. 02-8704-03, Site Inspection, NUS Corp. Region 2 FIT, Edison, NJ, July 13, 1987.
Three Mile Vicinity Map for Commercial Envelope Site based on U.S. Geological Survey (USGS) Topographic Maps, 7.5 minute series, Quadrangles of "Greenlawn, NY," "Bayshore West, NY," and "Central Islip, NY," 1976.
Suffolk County Department of Health Services (SCHDS) Inspectors Notes, January 15, 1981.
SCDHS, Analytical Results from samples collected on August 29, 1984 and July 9, 1985.
General Sciences Corp., Graphical Exposure Modeling Systems (GEMS). Landover, Maryland, 1986.
Flood Insurance Rate Map, FIRM, Town of Babylon, New York, Suffolk County, Community Panel No. 3607900025B, July 16, 1979.
Important Farmlands, Soil Conservation Service, USDA of Suffolk County, New York, 1975.
Frank, O.L. and N.E. McClymonds, Summary of the hydrologic situation on Long Island, New York as a guide to waste management alternatives, Geological Survey Professional Paper 629 - F. United States Department of Interior, 1972.
Soren, Julian. Results of subsurface exploration in the midisland are of Western Suffolk County, Long Island, New York. Long Island Water Resources, Bulletin No. 1, 1971.
Uncontrolled hazardous waste ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.
Letter from W.J. Schnickler, Suffolk County Water Authority, to E. Leonard, NUS Corp., August 3, 1987.
Letter from S.C. McLenlon, H2M Group, to E. Leonard, NUS Corp., August 25, 1987.
Letter from W.J. Brandow, Brentwood Water District, to E. Leonard, NUS Corp., August 25, 1987.
Atlantic Coast Ecological Inventory, New York, NY-Conn-NJ, U.S. Fish and Wildlife Service, 1980.
Baxton, H.T., D.A. Sonolensky and P.K. Sheinoff, Hydrologic correlations for selected wells on Long Island, New York, USGS Water Resources Investigations Report 86-4318, U.S. Department of Interior, 1989.

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	Organic Lab: Nanco Labs Inc. RD 6 Robinson Lane Wappinger Falls, NY 12590	Received 11/10/87
SURFACE WATER			
WASTE		Inorganic Lab: Chemtech Consulting Group 360 West 11th Street New York, NY 10014	Received 12/07/87
AIR			
RUNOFF			
SPILL			
SOIL	2		
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Air Monitoring	No air monitoring readings above background conditions were detected from the undisturbed areas of the site, on the OVA flame ionization detector or the HNu photoionization detector. However, elevated readings were detected on the OVA and HNu during the collection of soil sample NYSI-S2. In addition, elevated readings were also detected on the OVA in monitoring well TW2. TW2 and TW3 tested positive for vinyl chloride.
Water Level	Water level measurements were obtained from three monitoring wells.

IV. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND X AERIAL

02 IN CUSTODY OF NUS Corp. Region 2 FIT Files
(Name of organization or individual)

03 MAPS X YES _ NO

04 LOCATION OF MAPS NUS Corp. Region 2 FIT, Edison, NJ

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Field Notebook No. 0101, Commercial Envelope Manufacturing Co. Inc., filed under TDD No. 02-8704-03

VI. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

U.S. EPA Contract Laboratory Program Nanco Labs, Inc., organic analyses, and Chemtech Consulting Group, inorganic analyses, Case No. 7610, Laboratory Analysis from NUS Corp. Region 2 FIT Site Inspection conducted on July 13, 1987. Field Notebook No. 0101, Commercial Envelope Manufacturing, Co., Inc. TDD No. 02-8704-03, Site Inspection, Corp. Region 2 FIT, Edison, NJ, July 13, 1987.

01 STATE 02 SITE NUMBER
NY 0981184138

II. CURRENT OWNER(S)

01 NAME	02 D + B NUMBER	PARENT COMPANY (If applicable) 08 NAME	09 D + B NUMBER
Commercial Envelope Manufacturing Co. (Kristel Family)			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
900 Grand Boulevard			
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE
Deer Park / NY	11729		

01 NAME	02 D + B NUMBER	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE

01 NAME	02 D + B NUMBER	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE

01 NAME	02 D + B NUMBER	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D + B NUMBER	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
Alwin Seal Inc.			
05 CITY / 06 STATE	07 ZIP CODE		
900 Grand Blvd. / Deer Park / NY	11729		

01 NAME	02 D + B NUMBER	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE		

01 NAME	02 D + B NUMBER	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE		

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D + B NUMBER	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
ASM Realty Corp.			
05 CITY / 06 STATE	07 ZIP CODE		
Unknown			

01 NAME	02 D + B NUMBER	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
Town of Babylon Industrial Development Agency			
05 CITY / 06 STATE	07 ZIP CODE		
400 West Main Street / Babylon / NY	11702		

01 NAME	02 D + B NUMBER	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
Kelson Holding Corp.			
05 CITY / 06 STATE	07 ZIP CODE		
Unknown			

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NSYDEC, Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigation, Commercial Envelope Mfg. Co., Inc., Site No. 152103, EA Science and Technology, Draft, May 1986.
Project Note: E. Leonard, NUS Corp., to File, Subject: Past and Present Property Owners, July 29, 1987.

01 STATE 02 SITE NUMBER
NY 0981184138

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME | 02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.) | 04 SIC CODE
05 CITY | 06 STATE | 07 ZIP CODE

01 NAME | 02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.) | 04 SIC CODE
05 CITY | 06 STATE | 07 ZIP CODE

01 NAME | 02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.) | 04 SIC CODE
05 CITY | 06 STATE | 07 ZIP CODE

IV. REALTY OWNER(S) (If applicable: list most recent first)

01 NAME | 02 D + B NUMBER
Fred Frank Inc.
03 STREET ADDRESS (P.O. Box, RFD#, etc.) | 04 SIC CODE
Unknown
05 CITY | 06 STATE | 07 ZIP CODE

01 NAME | 02 D + B NUMBER
Melville Industrial Associates
03 STREET ADDRESS (P.O. Box, RFD#, etc.) | 04 SIC CODE
Unknown
05 CITY | 06 STATE | 07 ZIP CODE

01 NAME | 02 D + B NUMBER
Doro Operating Corp.
03 STREET ADDRESS (P.O. Box, RFD#, etc.) | 04 SIC CODE
Unknown
05 CITY | 06 STATE | 07 ZIP CODE

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0981184138

II. CURRENT OPERATOR(S)

01 NAME		02 D + B Number	OPERATOR'S PARENT COMPANY (If applicable) 10 NAME		11 D + B NUMBER
Commercial Envelope Mfg. Co. Inc.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
900 Grand Boulevard					
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Deer Park	NY	11729			
08 YEARS OF OPERATION	09 NAME OF OWNER				
11	Ira B. Kristel				

III. PREVIOUS OPERATOR(S) (List most recent first: Provide only if different from owner)

01 NAME		02 D + B Number	PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable) 10 NAME		11 D + B NUMBER
Alwin Seal Inc.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
900 Grand Boulevard					
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Deer Park	NY	11729			
08 YEARS OF OPERATION	09 NAME OF OWNER				
4	Unknown				
01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				
01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC, Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigation, Commercial Envelope Mfg. Co., Inc. Site No. 152103, EA Science and Technology, Draft, May 1986.
Project Note: E. Leonard, NUS Corp., to Commercial Envelope File, Subject: Past and Present Property Owners, July 29, 1987.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0981184138

II ON-SITE GENERATOR

01 NAME		02 D + B NUMBER
Commercial Envelope Mfg. Co., Inc.		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
900 Grand Boulevard		
05 CITY	06 STATE	07 ZIP CODE
Deer Park	NY	11729

III OFF-SITE GENERATOR(S)

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
None					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
Art Weiner - Earth Moving			Chemical Pollution Control (CPC)		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
Unknown			Unknown		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Telecon Note: Conversation between J. Ficheria, NYSDEC, and E. Leonard, NUS Corp., July 16, 1987.
Suffolk County Department of Health Services (SCHDS) Inspector's Notes, February 27, 1981, January 14, 1985 and February 22, 1986.

II. PAST RESPONSE ACTIVITIES

01 A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 X E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE: 03 AGENCY:

Soil from side of building. 2/27/81 Art Weiner-Earth Moving
Soil, liquid, and sludge from loading dock storm drains were removed. 1/10/85 Chemical Pollution Control (CPC)
Soil from top of three abandoned ink waste tanks. 2/27/86 CPC

01 F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 H. ON SITE BURIAL
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 L. ENCAPSULATION
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 N. CUTOFF WALLS
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

01 Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE: 03 AGENCY:

No previous history.

II. PAST RESPONSE ACTIVITIES

01 R. BARRIER WALLS CONSTRUCTED
04 DESCRI TION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 S. CAPPING/COVERING
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 T. BULK TANKAGE REPAIRED
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 V. BOTTOM SEALED
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 W. GAS CONTROL
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 X. FIRE CONTROL
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 Y. LEACHATE TREATMENT
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 Z. AREA EVACUATED
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 2. POPULATION RELOCATED
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

01 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION — 02 DATE: _____ 03 AGENCY: _____

No previous history.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Suffolk County Department of Health Services (SCHDS) Inspectors Notes, February 27, 1981, January 14, 1985, and February 27, 1986.

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES _ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

3/13/81 Consent Order
Removal and proper disposal of soil, due to spill January 15, 1981. Imposed a $500 civil penalty.

9/16/82 Consent Order
Immediately stop all discharge of toxic or hazardous materials. Provide proper storage and disposal of toxic or hazardous materials. Leak test the three underground storage tanks. Imposed a $1,000 civil penalty.

7/9/85 Search Warrant Investigation
Conducted by the Environmental Crimes Unit - Office of District Attorney and aided by SCDHS.

11/12/85 Consent Order
Properly dispose of the toxic or hazardous liquid and sludge in the loading dock area. Clean and fill to grade the most western leaching pool. Properly abandon the three underground storage tanks. Provide proper storage and disposal of toxic or hazardous materials. Comply with all applicable state regulations for the industrial waste holding tank and the incinerator. Determine groundwater quality through the installation and sampling of monitoring wells.

1/30/86 Settlement
Convicted of Unlawful Discharge of Hazardous Waste in the Second Degree and fined $25,000. Agreed to meet provisions from Consent Order of November 12, 1985.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, report)

Suffolk County Department of Health Services (SCHDS) Inspectors Notes, January 15, 1981 and July 9, 1985.
Suffolk County Department of Health Services (SCHDS) Consent Orders, September 16, 1982, and November 12, 1985.
Letter from F. Eisenbud, Assistant District Attorney, to Dr. Harris, Commissioner (SCHDS), March 31, 1986.
Log of Chronology of Events regarding Consent Order No. IW 82-49, Commercial Envelope Manufacturing Co. Inc.

SECTION 3

MAPS AND PHOTOGRAPHS

EXHIBIT A

PHOTOGRAPHS [illegible]

COMMERCIAL ENVELOPE MANUFACTURING [illegible]
DEER PARK, NEW YORK

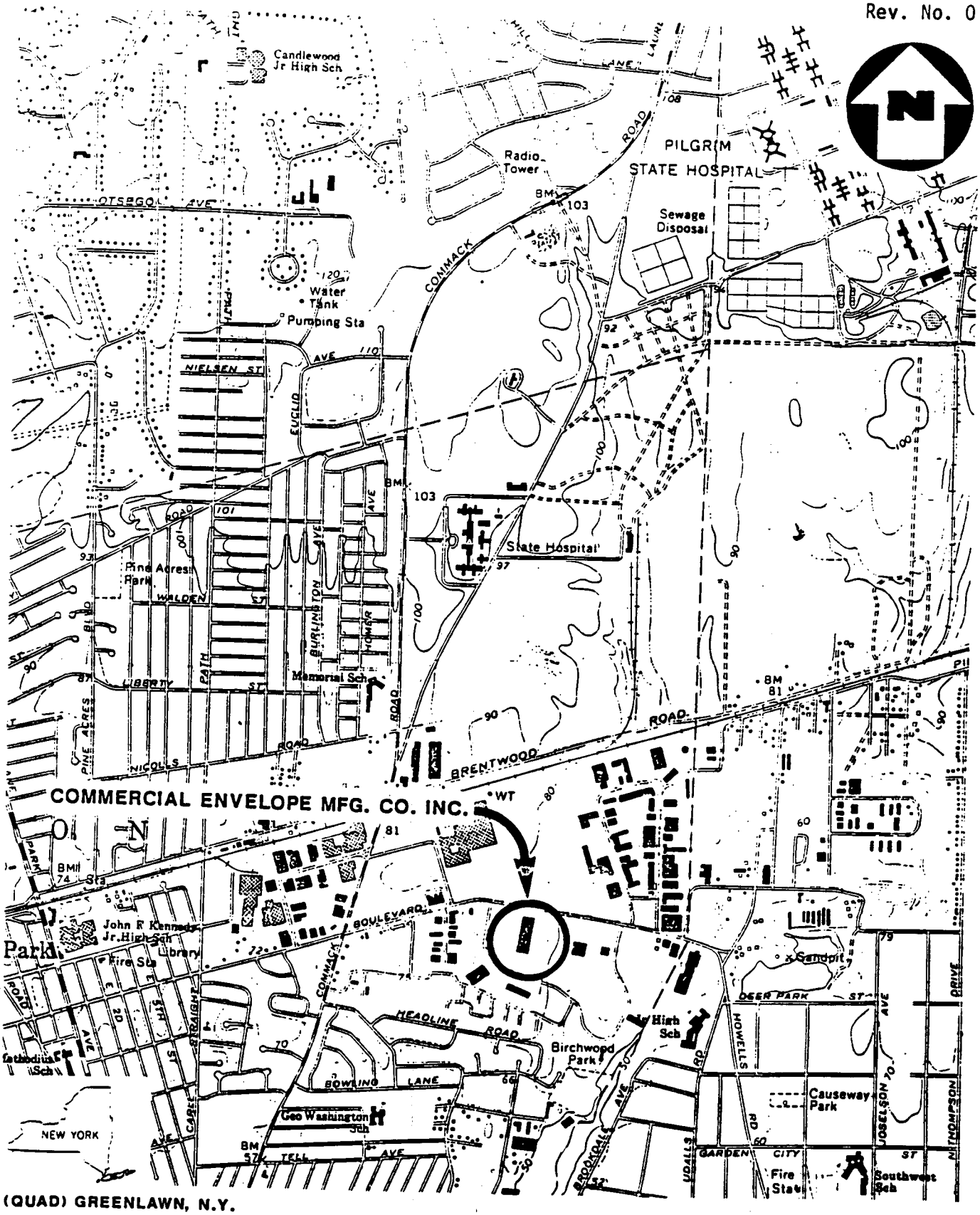
SITE INSPECTION, JULY 13

MAPS AND PHOTOS

COMMERCIAL ENVELOPE MANUFACTURING CO., INC.
DEER PARK, NEW YORK

CONTENTS

Figure 1: Site Location Map
Figure 2: Sample Location Map
Exhibit A: Photograph Log



(QUAD) GREENLAWN, N.Y.

FIGURE 1

SITE LOCATION MAP

COMMERCIAL ENVELOPE MFG. CO. INC.,

DEER PARK, N.Y.

SCALE: 1"=2000'

NUS CORPORATION

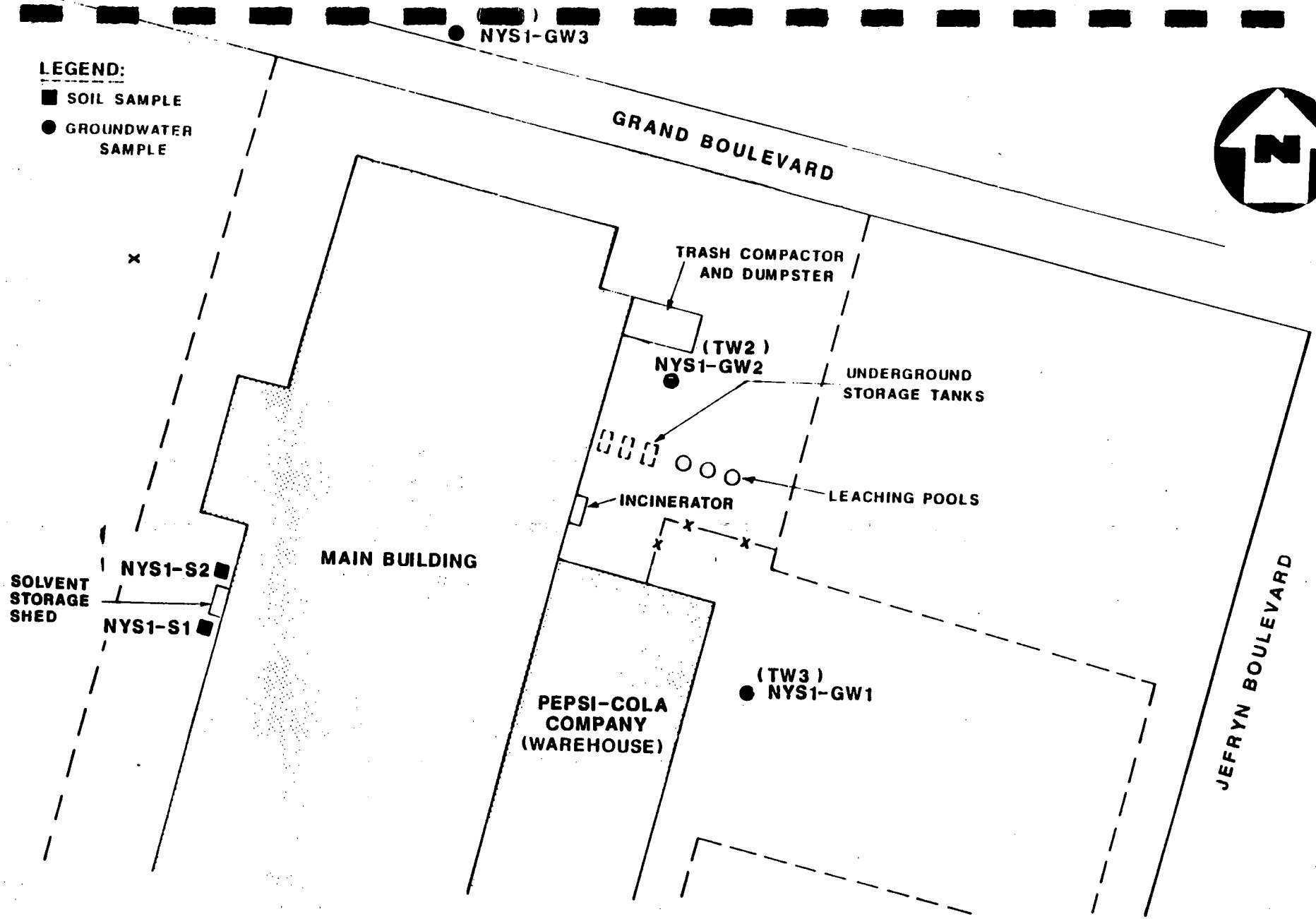


FIGURE 2

SAMPLE LOCATION MAP

COMMERCIAL ENVELOPE MFG. CO. INC., DEER PARK, N.Y.

(NOT TO SCALE)

NUS CORPORATION

02-8704-03-SR
Rev. No. 0

023

EXHIBIT A

PHOTOGRAPH LOG

COMMERCIAL ENVELOPE MANUFACTURING CO., INC.
DEER PARK, NEW YORK

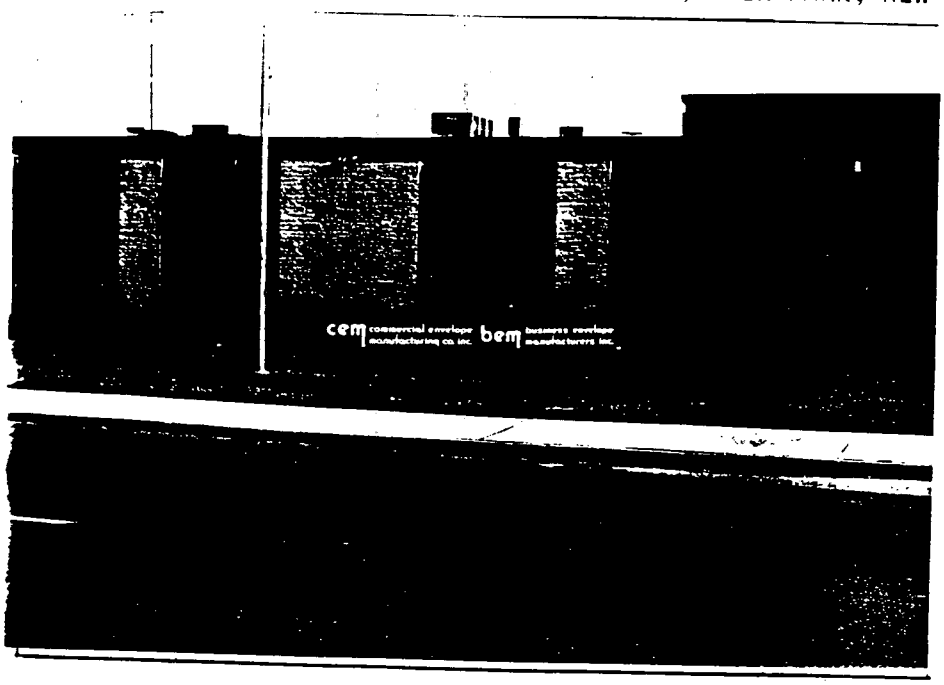
SITE INSPECTION: JULY 13, 1987

COMMERCIAL ENVELOPE MANUFACTURING CO., INC.
DEER PARK, NEW YORK
JULY 13, 1987

PHOTOGRAPH INDEX

Photo Number	Description	Time
P1-9	Photograph of company sign in front of main building.	1716
P1-5	J. Murtaugh obtaining soil sample NYS1-S1.	1457
P1-6	J. Murtaugh obtaining soil sample NYS1-S2.	1510
P1-4	J. Murtaugh obtaining groundwater sample NYS1-GW1.	1351
P1-2	J. Murtaugh obtaining groundwater sample NYS1-GW2.	1231
P1-8	D. de Bruijn obtaining groundwater sample NYS1-GW3.	1704

All photographs taken by E.L. Leonard.



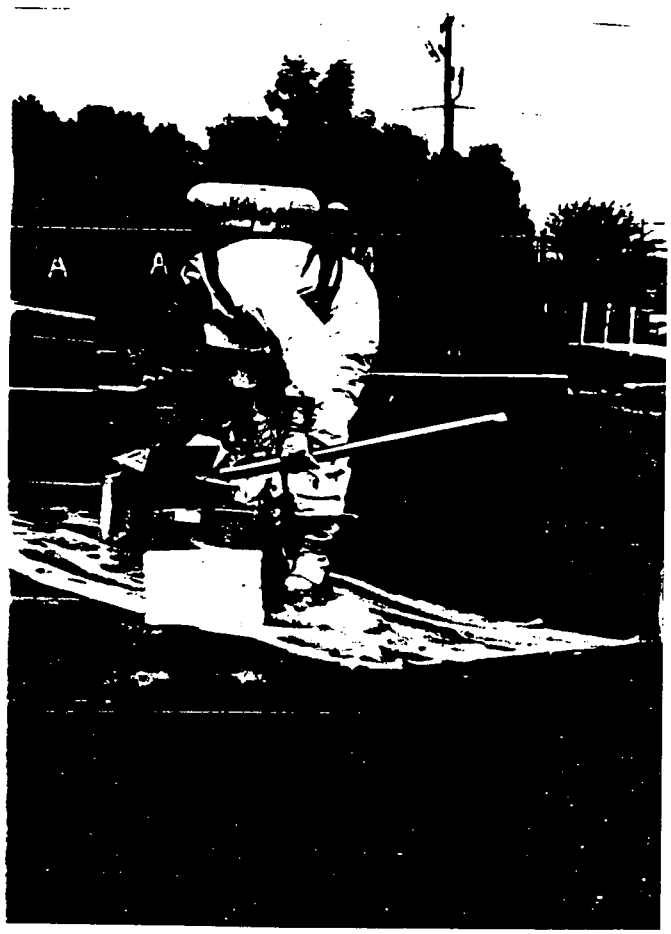
P1-9 July 13, 1987 1716
Photograph of company sign in front of main building.

P1-5 July 13, 1987 1457
J. Murtaugh obtaining soil sample NYS1-S1.

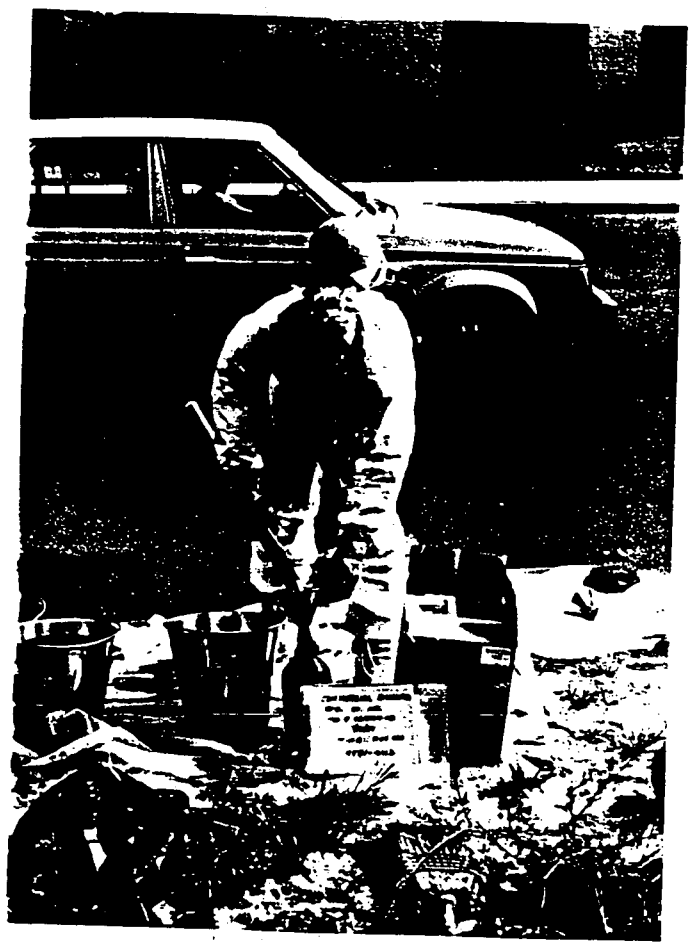
P1-6 July 13, 1987 1510
J. Murtaugh obtaining soil sample NYS1-S2.

P1-4 July 13, 1987 1351
J. Murtaugh obtaining groundwater sample NYS1-GW1.

COMMERCIAL ENVELOPE MFG. CO., INC. DEER PARK, NEW YORK



P1-2 July 13, 1987 1231
J. Murtaugh obtaining groundwater sample NYS1-GW2.



P1-8 July 13, 1987 1704
Dan de Bruijn obtaining groundwater sample NYS1-GW3.

SECTION 4

CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS AND RECOMMENDATIONS

Several inorganic and volatile organic compounds were detected in groundwater and soil samples collected by NUS Corporation Region 2 FIT on July 13, 1987. Arsenic, cadmium, cobalt, and iron were detected in downgradient well samples in higher concentrations than in the upgradient sample. 1,1,1-Trichloroethane was detected in a downgradient sample at a higher concentration then the upgradient well sample. Vinyl chloride was detected in one downgradient sample and tetrachloroethene was detected in both downgradient samples; neither was detected in the upgradient sample. The only volatile detected in the soil was tetrachloroethene. A pesticide (Endosulfan sulfate) was also detected in the soil.

Groundwater provides the only source of potable water for the region. There is a potential for groundwater contamination to affect three municipal wells serving 111,300 residents within 3 miles of the facility. There is a potential for direct contact, with contaminants detected in the soil. The site is not fenced to prevent unauthorized access. Approximately 9,000 people reside within 1 mile of the site. Based on information provided, a **LISTING SITE INSPECTION** is recommended under CERCLA/SARA for the Commercial Envelope Mfg. Co., Inc. Site.

SECTION 5

BIBLIOGRAPHY OF INFORMATION SOURCES

REFERENCE NO. 1

BIBLIOGRAPHY OF INFORMATION SOURCES

1. Soren, Julian. Results of subsurface exploration in the midisland area of Western Suffolk County, Long Island, New York. Long Island Water Resources, Bulletin No. 1, 1971.

2. Frank, O.L. and N.E. McClymonds, Summary of the hydrologic situation on Long Island, New York as a guide to water management alternatives, Geological Survey Professional Paper 627-F. United States Department of the Interior, 1972.

3. Letter from Steven Cohen of Gold & Wachtel, to Joann Wagner, NUS Corporation, June 10, 1987.

4. Field Notebook No. 0101, Commercial Envelope Manufacturing, Co., Inc. TDD No. 02-8704-03, Site Inspection, NUS Corp. Region 2 FIT, Edison, NJ, July 13, 1987.

5. Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.

6. Suffolk County Department of Health Services (SCHDS), Inspectors Notes, January 15, 1981, February 27, 1981, January 14, 1985, July 9, 1985, February 27, 1986 and August 24, 1984.

7. Telecon Note: Conversation between D. Obrig, Suffolk County Health Department, and E. Leonard, NUS Corp. on July 15, 1987.

8. SCDHS, Analytical Results from samples collected on January 15, 1981, August 29, 1984, July 9, 1985 and March 11, 1986.

9. Letter from W. J. Schnickler, Suffolk County Water Authority, to E. Leonard, NUS Corp., August 3, 1987.

10. Letter from S.C. McLenlon, H2M Group, to E. Leonard, NUS Corp., August 25, 1987.

11. Letter from W.J. Brandow, Brentwood Water District, to E. Leonard, NUS Corp., August 25, 1987.

12. General Sciences Corp., Graphical Exposure Modeling Systems (GEMS). Landover, Maryland, 1986.

13. Atlantic Coast Ecological Inventory, New York, NY-Conn-NJ, U.S. Fish and Wildlife Service, 1980.

14. U.S. EPA Contract Laboratory Program Nanco Labs, Inc., organic anlaysis, and Chemtech Consulting Group, inorganic analysis, Case No. 7610, Laboratory Analysis from NUS Corp. Region 2 FIT Site Inspection conducted on July 13, 1987.

15. Three Mile Vicinity Map for Commerical Envelope Manufacturing Co., Inc. Site based on U.S. Geological Survey (USGS) Topographic Maps, 7.5 minute series, Quadrangles of "Greenlawn, NY," "Bayshore West, NY," and "Central Islip, NY," 1967.

16. NYSDEC, Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigations, Commercial Envelope Mfg. Co., Inc., Site No. 152103, EA Science and Technology, Draft, May 1986.

17. Telecon Note: Conversation between J. Ficheria, NYSDEC, and E. Leonard, NUS Corp., July 16, 1987.

18. Project Note: E. Leonard, NUS Corp., to Commercial Envelope File, Subject: Past and Present Property Owners, July 29, 1987.

19. Letter from F. Eisenbud, Assistant District Attorney, to Dr. Harris, Commissioner SCDHS, March 31, 1986.

BIBLIOGRAPHY OF INFORMATION SOURCES (CONT'D)

20. Telecon Note: Conversation between F. Watt, SCHD Water Resources, and E. Leonard, NUS Corp., July 16, 1987.

21. Consent Orders for Commercial Envelope, SCDHS, September 16, 1982 and November 12, 1985.

22. Buxton, H.T., D.A. Sonolensky, and P.K. Shernoff, Hydrogeologic correlations for selected wells on Long Island, New York, USGS, Water Resources Investigations, Report 86-4318, U.S. Department of Interior, 1989.

23. Telecon Note: Conversation between James DeSale, Town of Babylon Highway Dept., and E. Leonard, NUS Corp., June 24, 1987.

24. Telecon Note: Conversation between Colby Tucker, Erie County DEC, and J. Leahy, NUS Corp. August 13, 1990.

25. Water Quality Regulations Surface Water and Groundwater Classifications and Standards, New York State, Title 6, Codes, Rules, and Regulations, Chapter X, Parts 700-705, October 31, 1985.

26. Telecon Note: Conversation between Mrs. Bahr, Suffolk County Water Authority, and J. Leahy, NUS Corp., August 15, 1990.

27. Flood Insurance Rate Map, Town of Babylon, Suffolk County, New York, Community Panel No. 3607900025B, July 16, 1979.

28. Important Farmlands of New York, U.S. Department of Agriculture, Soil Conservation Service, August 1977.

29. Log of Chronology of Events regarding Consent Order No. IW 82-49, Commercial Envelope Manufacturing Co., Inc.

SECTION 6

BACKGROUND INFORMATION

REFERENCE NO. 1

LONG ISLAND WATER RESOURCES
BULLETIN NUMBER 1

RESULTS OF SUBSURFACE EXPLORATION IN THE MID-ISLAND AREA OF WESTERN SUFFOLK COUNTY, LONG ISLAND, NEW YORK

BY
JULIAN SOREN
U. S. GEOLOGICAL SURVEY

WITH A SECTION ON
POTENTIAL DEVELOPMENT OF GROUNDWATER
IN THE MID-ISLAND AREA

BY
PHILIP COHEN
U. S. GEOLOGICAL SURVEY

PREPARED BY

U. S. GEOLOGICAL SURVEY

IN COOPERATION WITH

SUFFOLK COUNTY LEGISLATURE
SUFFOLK COUNTY WATER AUTHORITY

PUBLISHED BY

SUFFOLK COUNTY WATER AUTHORITY

1971

037

UPPER CRETACEOUS SERIES

Raritan Formation

Lloyd Sand Member

The Lloyd Sand Member of the Raritan Formation comprises the Lloyd aquifer on Long Island. This unit consists mostly of beds and lenses of light- to medium-gray sand and gravelly sand, commonly containing small to large amounts of interstitial clay and silt, that are intercalated with beds and lenses of light- to dark-gray clay, silt, and clayey and silty sand.

Only two drill holes are known to have penetrated the Lloyd in the mid-island area. One hole partly penetrated the unit at the Pilgrim State Hospital, in Brentwood. The second hole, which is in the village of Lake Ronkonkoma, and which was one of the test holes drilled as part of this study, fully penetrated the unit. A log of the test hole describing lithology of the Lloyd is shown in table 1, S33379.

The surface of the Lloyd is roughly parallel to the bedrock surface. The Lloyd surface dips from an altitude of about 550 feet below sea level in the northwestern part of the area, to an altitude of about 1,250 feet below sea level in the southeastern part (pl. 2), and the unit's thickness ranges from about 260 feet to 360 feet from northwest to southeast, respectively. Plate 2 shows contours on the Lloyd surface. Plate 2 also shows contours on the bedrock surface; therefore, the Lloyd's thickness, in any part of the area, can be estimated by computing the local difference between the altitudes of the bedrock and Lloyd surfaces.

The Lloyd aquifer is moderately permeable. Its average horizontal permeability has been estimated by Lusczynski and Swarzenski (1966, p. 19), Isbister (1966, p. 20), and Soren (in press) to range between 400 and 500 gpd per sq ft (gallons per day per square foot) in Queens and Nassau Counties, west of the mid-island area. Warren and others (1968, p. 102) estimated the Lloyd's horizontal permeability to be 165 gpd per sq ft at the Brookhaven National Laboratory, about 12 miles east of the mid-island area. The section of Lloyd penetrated by the test well near Lake Ronkonkoma was fairly sandy and gravelly (table 1, S33379), and at this site the average horizontal permeability of the Lloyd probably is considerably more than 500 gpd per sq ft. Wells tapping the Lloyd in other parts of Long Island have been pumped at rates of as much as 1,600 gpm (gallons per minute), and the specific capacities of these wells (pumpage, in gallons per minute, divided by drawdown, in feet) have been reported to range from 3 to 40 gpm per foot of drawdown.

At present, there is no pumpage from the Lloyd aquifer in the mid-island area, mainly because of the great depth of the aquifer, and because more permeable aquifers are found at shallower depths. In addition to being at a greater depth, the water from the Lloyd commonly has undesirably high concentrations of iron.

Clay Member

The clay member of the Raritan Formation (commonly referred to as the Raritan clay) completely covers the underlying Lloyd aquifer in the mid-island area, and confines water in that aquifer. The Raritan clay consists mostly of beds and lenses of light- to dark-gray clay, silt, and clayey and silty fine sand (table 1). Thin to thick sandy beds commonly occur in the unit from place to place, but these beds do not have great lateral extent. Laminae and thin beds of lignite and pyrite and disseminated particles of these substances are common in the clay beds of the unit. The thickness of the Raritan clay increases to the southeast, and ranges from about 150 feet in the northwestern part of the mid-island area to about 200 feet in the southeastern part.

The surface of the Raritan clay is roughly parallel to that of the underlying Lloyd Sand Member. The altitude of the surface of the Raritan clay ranges from about 300 feet below sea level in the northwestern part of the mid-island area, to about 1,050 feet below sea level in the southeastern part (pl. 3).

Matawan Group-Magothy Formation, Undifferentiated

The Matawan Group-Magothy Formation, undifferentiated, comprises the Magothy aquifer of Long Island. Deposits in this unit consist of beds and lenses of light-gray fine to coarse sand, containing traces to large amounts of interstitial clay and silt, intercalated with thin to thick beds and lenses of light- to dark-gray clay, silt, and clayey and silty sand (table 1). The clay and silt beds commonly contain laminae and thin beds of lignite. Disseminated lignite and pyrite also are common in the sand beds of the aquifer. Gravelly coarse sand is commonly found in the basal part of the aquifer. This coarse zone ranges in thickness from 100 to 150 feet west of the mid-island area to 150 to 200 feet in the mid-island area. The basal zone also commonly contains abundant interstitial clay and silt and many thin to thick beds and lenses of clay, silt, and clayey and silty sand.

The surface of the Magothy aquifer (pl. 4) is not planar as are the surfaces of the underlying units. The Magothy surface was deeply eroded during Tertiary time, and probably was considerably eroded in Pleistocene time. Consequently, the depth to the Magothy aquifer and the aquifer's thickness cannot be predicted as accurately as the depths and thicknesses of the underlying units. Many control points in addition to those already known are needed to accurately map the upper surface of the Magothy aquifer.

The highly irregular character of the surface of the Magothy aquifer is shown in plate 4. The upper surface of the aquifer ranges in altitude from as high as about 200 feet above sea level to as low as about 500 feet below sea level. The Magothy was completely removed by erosion in a buried valley near the South Huntington area, and in that area upper Pleistocene deposits lie directly on the Raritan clay. This buried valley was called the "Huntington buried valley" by Lubke (1964, pl. 3), and as mapped by Lubke, the valley extended about 2-1/2 miles south of the Northern State Parkway.

Information from wells drilled after Lubke's investigation indicates that the Huntington buried valley continues southeastward, joining another buried valley in the Deer Park area. From Deer Park, the valley appears to extend southeastward across Long Island to the Fire Island Pines area of Fire Island, about 10 miles southeast of Deer Park, where the Magothy surface was shown to be about 350 feet below sea level by Perlmutter and Todd (1965, pl. 8).

The Huntington and Deer Park buried valleys are separated by a divide across the buried valley system in the Deer Park area. The Huntington buried valley slopes steeply northwestward from the divide; the Deer Park buried valley has a gentle southward slope toward the Fire Island Pines area. The divide across the valley approximately coincides with the southern margin of the Ronkonkoma terminal moraine. (See the following section, "Pleistocene Series.") The steeper Huntington buried valley was probably overdeepened by scouring action of Pleistocene glaciation. Other buried valleys in the northern part of the mid-island area (pl. 4) are not as deep nor as extensive as the Huntington and Deer Park buried valleys.

A large depression in the Magothy surface is apparent in the St. James-Ronkonkoma area. Lubke (1964, pl. 3) showed the Magothy surface to be more than 200 feet below sea level in this area. More recent information indicates that the Magothy surface in this area is more than 500 feet below sea level (pl. 4). This large depression is here called the Ronkonkoma basin (pls. 4-5). The precise origin of this basin is not known, but it probably was at least partly a result of Pleistocene glacial scouring of a pre-existing valley system. The depression appears to have had no outlet, and its southernmost end coincides approximately with the southern margin of the Ronkonkoma terminal moraine.

Representative thicknesses of the Magothy aquifer are shown in geologic sections in plate 5. In these sections, the thickness of the Magothy ranges from about 300 to 800 feet. The estimated thickness of the Magothy aquifer in any part of the mid-island area can be computed by determining the difference between altitudes of the Magothy and Raritan surfaces as shown in plates 3 and 4. The Magothy aquifer is thickest (about 950 feet) in the southeastern corner of the project area, and it is thinnest in the bottom of the buried valleys. As previously noted, the aquifer is completely missing in part of the buried valley near South Huntington (pl. 4).

The permeability of the Magothy aquifer ranges widely. The estimated average horizontal permeability of the aquifer is about 500 gpd per sq ft in Nassau and Queens Counties (Lusczynski and Swarzenski, 1966, p. 19; Isbister, 1966, p. 23-24; and Soren, in press); however, the permeabilities of some beds in the aquifer may be as high as 2,000 gpd per sq ft (Isbister, 1966, p. 23). Public-supply wells screened in the Magothy aquifer of the mid-island area have yielded as much as 1,700 gpm, with specific capacities ranging from about 14 to 85 gpm per ft of drawdown.

PLEISTOCENE SERIES

Upper Pleistocene deposits

Pleistocene deposits of glacial origin mantle the surface of the mid-island area (pl. 1) and range in thickness from a few tens of feet in some localities to more than 600 feet in buried valleys. The approximate thickness of Pleistocene deposits at any place generally can be computed by determining the difference between the altitude of the land surface and the altitude of the surface of the Magothy aquifer.

Most and perhaps all the glacial materials on Long Island were deposited in Wisconsin time, and these materials generally are collectively termed upper Pleistocene deposits. The upper Pleistocene deposits in the mid-island area include terminal moraines, outwash deposits, ground moraine, and lake deposits. The Harbor Hill and Ronkonkoma terminal moraines form the irregular ridges trending east-northeast across the area. Outwash deposits derived from melted glacial ice lie south of the Ronkonkoma terminal moraine. Glacial lake deposits, which apparently were formed between the Ronkonkoma and Harbor Hill advances of the glaciers, lie within outwash deposits below the land surface, and occur mostly between the terminal moraines in the eastern half of the area, most notably in the Smithtown-St. James-Ronkonkoma area.

Ronkonkoma Terminal Moraine

The Ronkonkoma terminal moraine marks the farthest advance of glaciation on Long Island. The moraine is composed largely of crudely stratified sand and gravel. It underlies the highest parts of the mid-island area, tapering from an irregular broad band in the western part, to an irregular narrow ridge in the eastern part. (See plate 1.) The unit lies mostly above the water table and is, therefore, practically of no significance as a source of ground water; however, it is a difficult unit to drill through because of the large amounts of gravel, cobbles, and scattered boulders that it contains.

Harbor Hill Terminal Moraine

Only a very small part of this moraine is found in the mid-island area, in the extreme northwest corner near South Huntington (pl. 1). Most of this moraine is north of the mid-island area. The moraine's lithology and water-bearing characteristics are similar to those of the Ronkonkoma terminal moraine.

Outwash Deposits

The outwash deposits, which are found south of the Ronkonkoma terminal moraine and between the Harbor Hill and Ronkonkoma terminal moraines (fig. 2), are beds of sand and gravel that were deposited by glacial melt water. The

source of the rock materials in the outwash deposits is manifold. As the glaciers moved southward to Long Island, they plucked the bedrock and soils of the surfaces they slid over. Rock materials were incorporated into the ice in contact zones and were also pushed along the glacial front. As the ice melted in late Pleistocene time, the various rock materials were carried away by broad coalescing streams and sheets of water. Consequently, the outwash deposits are stratified, and because of the varied materials carried by the glacier, these deposits consist of a heterogeneous suite of rock types. The great diversity of rock and mineral suites in the Pleistocene deposits, along with the chemically unstable (easily decomposed) rocks and minerals, commonly facilitates differentiation of glacial from the Cretaceous deposits on Long Island.

Outwash deposits underlie the plain in the mid-island area south of the Ronkonkoma terminal moraine, where the major source of glacial deposition was material from the Ronkonkoma ice advance. A readvance of the glacial front followed recession of the Ronkonkoma ice front and resulted in the formation of the Harbor Hill terminal moraine. Lakes were formed in depressions and valleys between the Ronkonkoma and Harbor Hill terminal moraines, and clayey materials were deposited in these lakes. The intermorainal areas also contain recessional deposits of outwash and ground moraine (see the following section, "Ground-Moraine Deposits") from the Ronkonkoma and Harbor Hill deglaciations, and these materials buried the clayey lake deposits.

The outwash deposits are thickest in the buried valleys and thinnest where the Cretaceous surface is closest to land surface (pl. 5). These deposits generally extend below the water table, and are a major source of ground water. Outwash deposits comprise most of the so-called upper glacial aquifer of Long Island, and because these deposits of sand and gravel contain virtually no interstitial clay and silt, the upper glacial aquifer is the most permeable aquifer on Long Island. The estimated average horizontal permeability of the outwash deposits is about 1,000 to 1,500 gpd per sq ft (Lusczynski and Swarzenski, 1966, p. 17; and Soren, in press). Warren and others (1968, p. 75) computed the horizontal permeability of outwash to be about 1,300 gpd per sq ft at the Brookhaven National Laboratory, east of the mid-island area. A horizontal permeability for outwash as high as about 2,500 gpd per sq ft has been reported in Nassau County, west of the project area (Isbister, 1966, p. 29).

Public-supply and other high-capacity wells screened in glacial outwash on Long Island have yielded as much as 1,700 gpm, and reported specific capacities of such wells range from less than 10 gpm per foot of drawdown to as much as about 200 gpm per foot of drawdown; however, the specific capacities range mostly from 50 to 100 gpm per foot of drawdown. (See section "Yields of Individual Wells.")

Ground-Moraine Deposits

Ground-moraine deposits commonly consist of unstratified and unsorted clay, silt, sand, gravel, cobbles, and boulders, deposited on the land surface as the glacial fronts receded. Ground-moraine deposits from the Ronkonkoma advance probably occur beneath the outwash in the area between the Ronkonkoma and Harbor Hill terminal moraines. Some ground-moraine deposits probably were partly reworked by glacial melt water from the Harbor Hill advance and probably appear similar to outwash in drilling samples.

Lake Deposits

A large lake apparently existed between the Ronkonkoma and Harbor Hill terminal moraines in the previously described Ronkonkoma basin. Deposits of light- to dark-brown and gray clay and silt of lacustrine origin, with some included beds of sand and gravel, occur between deposits of outwash in this area. The deposits are informally known as the Smithtown clay unit or Smithtown clay, and they were mapped and described by Lubke (1964, p. 22 and 26) as the "clay unit of Smithtown." Thin to significant thicknesses of this unit were penetrated at four of the test-drilling sites in the eastern half of the mid-island area. (See plate 5 and table 1, S22577, S22910T, S24769, and S24772). Apparently, it is thickest near the community of Lake Grove (not shown in plate 1) about 2.5 miles north of Lake Ronkonkoma, where about 300 feet of Pleistocene clay beds were penetrated in a drilled test hole (Jensen, H. M., oral commun., 1969).

Smaller glacial lakes probably also existed in other parts of the intermorainal area. Many drilling logs from localities in the area indicate thin intercalated clay and fine sand beds between sand and gravel deposits. The extent of these lakes is not fully known, and they were probably small compared to the lake in which the Smithtown clay was deposited.

Veatch and others (1906, p. 61) suggested that present Lake Ronkonkoma, in the eastern part of the mid-island area, is in a depression made by a large ice block that was detached from the main glacial-front mass and buried by outwash deposits. Subsequent melting of the ice block presumably caused the depression in the land surface which then filled with water. Inasmuch as this study has shown that present Lake Ronkonkoma is in the Ronkonkoma basin, it seems possible that the location of the lake may merely reflect the fact that the ancient Ronkonkoma basin was not completely filled by glacial deposits.

The lake deposits do not yield significant quantities of water to wells because they are fine-textured and, accordingly, poorly permeable. However, the lake beds are hydrologically significant because they confine water in the underlying outwash deposits.

043

Miscellaneous Deposits

The Mannetto Gravel, of Pliocene age, and the Gardiners Clay, a Pleistocene interglacial marine deposit of pre-Wisconsin age, are two additional units of hydrologic signifiance in some parts of Long Island. However, their location and extent in the project area are poorly known, and they seem to occur in only a small part of the area.

The Mannetto Gravel was described and mapped by Fuller (1914, p. 80-85) from the western edge of the mid-island area to about as far east as the area between Wyandanch and Deer Park. The unit reportedly crops out at the tops of high hills, or near the crests of high hills capped by Ronkonkoma terminal moraine deposits. The author could not verify the location and extent of the Mannetto; consequently, the unit is not shown on the surficial geology map (pl. 1).

The Gardiners Clay is an interglacial marine deposit of Sangamon age. It is generally found in the south shore areas of Long Island where the depth to its surface is commonly 40 or more feet below sea level. The Gardiners Clay overlies Matawan-Magothy strata south of the mid-island area (Perlmutter and Todd, 1965, pl. 8), and some clay beds reported by well drillers in the southern part of the buried valley near Deer Park may be Gardiners Clay. However, this is uncertain, and the unit may not be present in the project area.

GROUND-WATER SYSTEM

SOURCE AND MOVEMENT OF GROUND WATER

The ground water on Long Island has its origin in precipitation that falls on the island. According to Cohen and others (1968, p. 36, 40, and 44), the precipitation on Long Island is disposed of as follows: nearly half returns to the atmosphere by evapotranspiration; a very small amount enters streams by direct runoff; and the remaining half percolates downward through the unconsolidated deposits to the water table and enters the ground-water reservoir.

The general ground-water movement on Long Island is from recharge areas near the center of the island to discharge areas at and near the shorelines. Ground water discharges by seepage into streams and by direct subsurface outflow into salty ground water, which in turn is hydraulically connected with bodies of salty surface water.

The horizontal components of the directions of ground-water flow in the upper glacial aquifer are shown in plate 6. In the vicinity of the major ground-water divide in the mid-island area (pl. 6), ground water generally moves downward from the upper glacial aquifer into the Magothy aquifer, and thence through the Raritan clay into the Lloyd aquifer. The vertical components of downward flow decrease with increasing distance both northward and southward of the divide. Beyond the northern and southern margins of the mid-island area, ground-water flow becomes virtually horizontal. Near

the shorelines, the direction of flow is reversed, and ground-water movement is upward from the deeper aquifers toward the surface. Thus, because of the character of the flow system, under natural conditions virtually all the recharge to the Magothy and Lloyd aquifers in western Suffolk County originated in the mid-island area, and all of that recharge ultimately discharged from the ground-water system near the shorelines.

The movement of ground water through Long Island's aquifers in the horizontal direction is generally more rapid than movement in the vertical direction because of the occurrence of interbedded fine- and coarse-grained layers, and because the largest dimensions of unevenly shaped particles in the individual layers tend to be oriented horizontally. Approximate rates of ground-water movement can be computed from hydraulic gradients and estimated coefficients of permeability and porosities of the aquifers. In 1968, water in the upper glacial aquifers in the project area was moving horizontally at rates from less than 0.5 foot per day at points distant from centers of pumping, to hundreds of feet per day near the screens of pumping wells. At the same time, water in the Magothy aquifer was moving horizontally at rates from less than 0.2 foot per day at points distant from pumping, to hundreds of feet per day near the screens of pumping wells.

HYDRAULIC INTERCONNECTION OF AQUIFERS

The aquifers of Long Island are hydraulically interconnected. Layers of clay and silt within an aquifer or between aquifers serve to confine water below them, but they do not completely prevent the vertical movement of water through them. Ground water moves downward readily through coarse outwash deposits in the upper glacial aquifer. Vertical movement of water through the Magothy aquifer is impeded by beds and lenses of clay and silt. Because the clay and silt strata in the Magothy are not continuous, some water may move around lenses of this material in addition to moving slowly through the fine-grained strata.

The contact between the upper glacial and Magothy aquifers is not regular either in attitude or in composition of the contact surfaces. Glacial deposits in buried valleys are in lateral contact with truncated sandy beds in the Magothy. In the buried valleys water can laterally enter the Magothy at great depth directly from the glacial deposits, rather than the water having to move vertically to the same depth through less permeable Magothy beds. In the Huntington buried valley, glacial deposits extend completely through the Magothy aquifer to the underlying Raritan clay. (See plate 4.) In addition to the good hydraulic continuity between the upper glacial and Magothy aquifers in the buried valleys, good hydraulic continuity occurs between the aquifers outside the buried valleys where glacial sand and gravel deposits lie directly on Magothy sand beds. Thus, a fairly good hydraulic connection exists between the upper glacial and Magothy aquifers over large parts of the mid-island area, and the configuration of the piezometric surface of the Magothy aquifer is generally similar to that of the water table. However, in the mid-island area hydraulic heads in the Magothy are lower than those in the upper glacial aquifer because of the downward component of ground-water movement in the area.

The thick areally persistent Raritan clay that lies between the Magothy and Lloyd aquifers impedes but does not prevent downward movement of ground water into the Lloyd aquifer, and water in the Lloyd is tightly confined between the Raritan clay and bedrock. Downward leakage into the bedrock is negligible.

Figures 2 and 3 show hydrographs of wells screened in the upper glacial aquifer and the Magothy aquifer at the test-drilling sites in Brentwood and Hauppauge. At both sites, the heads in the deepest wells in the Magothy aquifer are about 2.5 to 3 feet lower than the heads in the shallowest wells in the upper glacial aquifer. The loss of head downward reflects the downward movement of ground water in the mid-island area. The hydrographs in figures 2 and 3 show that the heads in these two aquifers in the project area decrease at a fairly uniform rate with increasing depth. In addition, water-level fluctuations in the two groups of wells were very similar. Both of these facts, the uniform decrease in head and the similar water-level fluctuations, reflect the high degree of hydraulic interconnection between the upper glacial and Magothy aquifers.

The average vertical permeability of the Magothy aquifer is only poorly known. Estimates range from less than 1 to about 30 gpd per sq ft. Assuming that it averages about 5 gpd per sq ft in the mid-island area, the computed amount of downward ground-water movement through the Magothy aquifer in the vicinity of the ground-water divide in 1968 was about 0.4 mgd (million gallons per day) per square mile, and the estimated velocity of the downward movement was about 0.006 foot per day.

Because of the low permeability of the Raritan clay, the hydraulic-head loss across this unit is very much larger than the head loss across a comparable thickness of the Magothy and upper glacial aquifers. At the easternmost test site in the village of Lake Ronkonkoma, wells were screened near the base of the Magothy and near the top of the Lloyd aquifers (pl. 5, section A-A', S33379-80). In 1968, the head near the base of the Magothy aquifer (about 45.5 feet above sea level) was about 11.5 feet higher than the head in the Lloyd aquifer (about 34 feet above sea level). Head losses across the Raritan clay at localities east and west of the Lake Ronkonkoma area differ considerably. At Upton, about 12 miles east of the mid-island area, the head loss across the clay was about 6 feet in 1968; and at Plainview (in Nassau County), about 3 miles southwest of Melville, the head loss across the clay was about 42 feet. The differences in head loss from place to place are largely a result of differences in the vertical permeability and thickness of the Raritan clay.

The head in the Lloyd aquifer at Lake Ronkonkoma in 1968 (about 34 feet above sea level) was higher than either of the heads in the Lloyd at Upton (about 30.5 feet above sea level) and at the Suffolk-Nassau boundary (about 27.5 feet above sea level). The head in the Lloyd at Terryville, about 7 miles northeast of the Ronkonkoma area was about 21 feet above sea level in 1968, and it was 19 feet above sea level at Fire Island State Park in 1968, about 13 miles to the southwest. These data suggest that water in the Lloyd aquifer is moving radially from the Lake Ronkonkoma area. The estimated rate of horizontal movement of water in the Lloyd aquifer in the project area in 1968, was on the order of 0.1 foot per day.

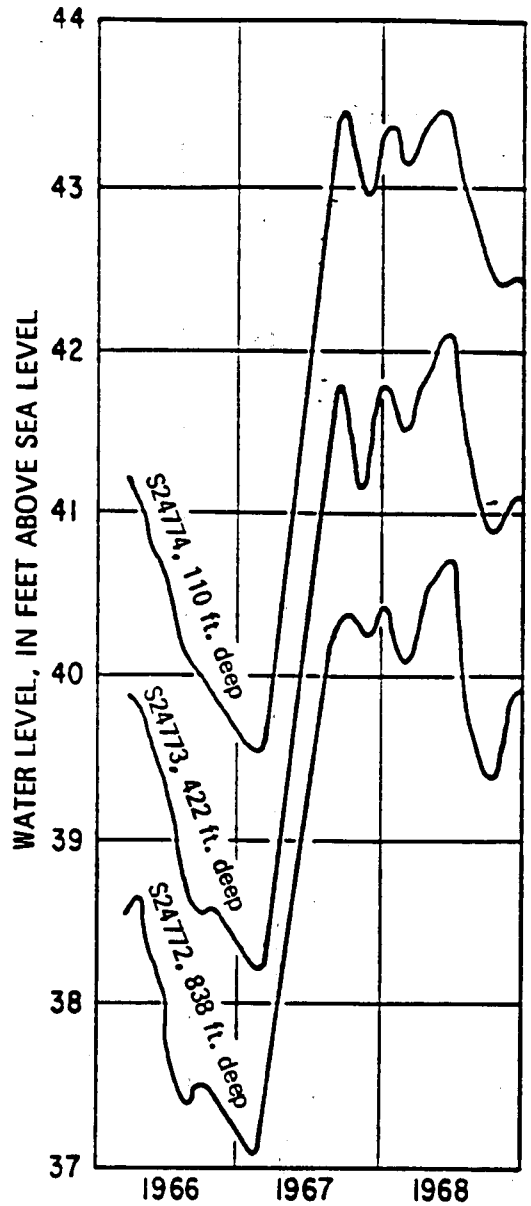


Figure 2.--Fluctuations of water levels in wells screened in the upper glacial aquifer and the Magothy aquifer at Brentwood, N. Y.

FLUCTUATIONS OF GROUND-WATER LEVELS

Fluctuations of water levels in the wells of the mid-island area reflect local variations in recharge to and discharge from the aquifers tapped by the wells. Therefore, changes in ground-water levels afford an insight into many aspects of the ground-water system. Furthermore, the information on water-level fluctuations can be used to help assess the impact of urbanization on the natural hydrologic system.

047

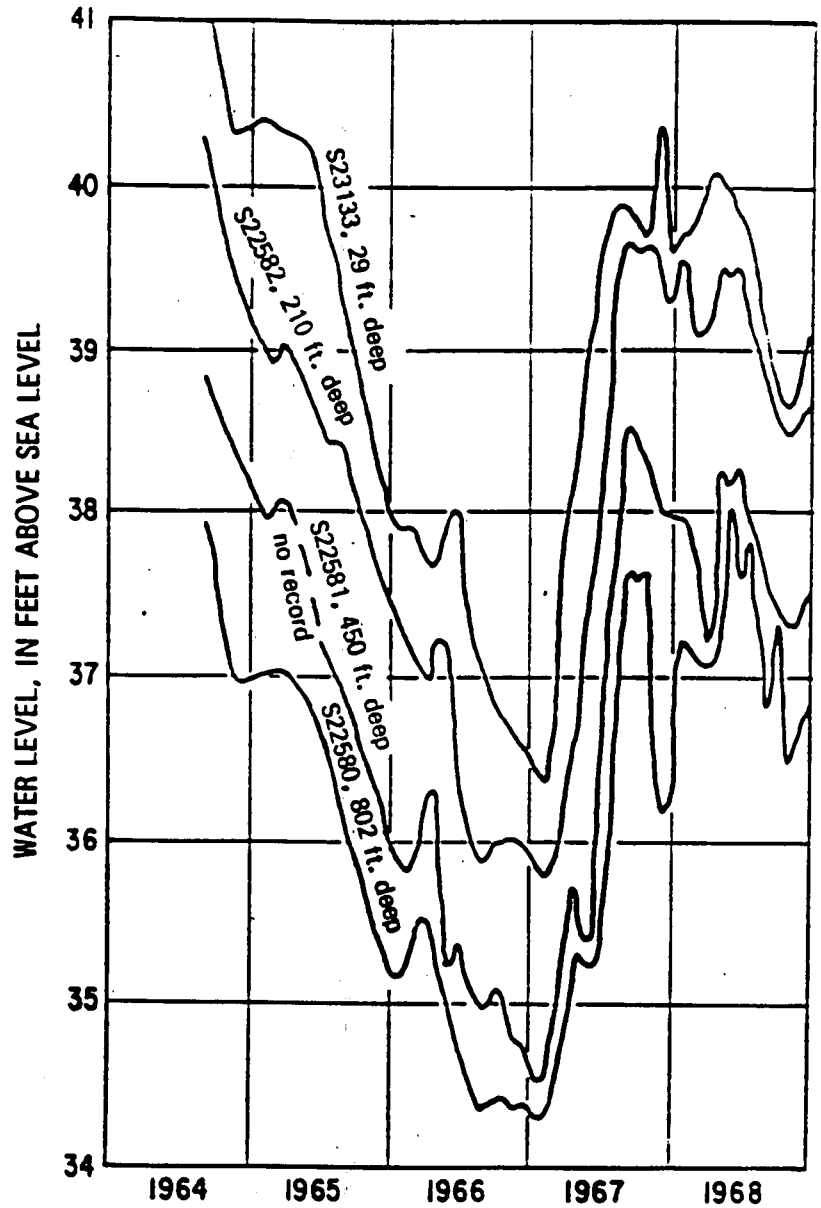
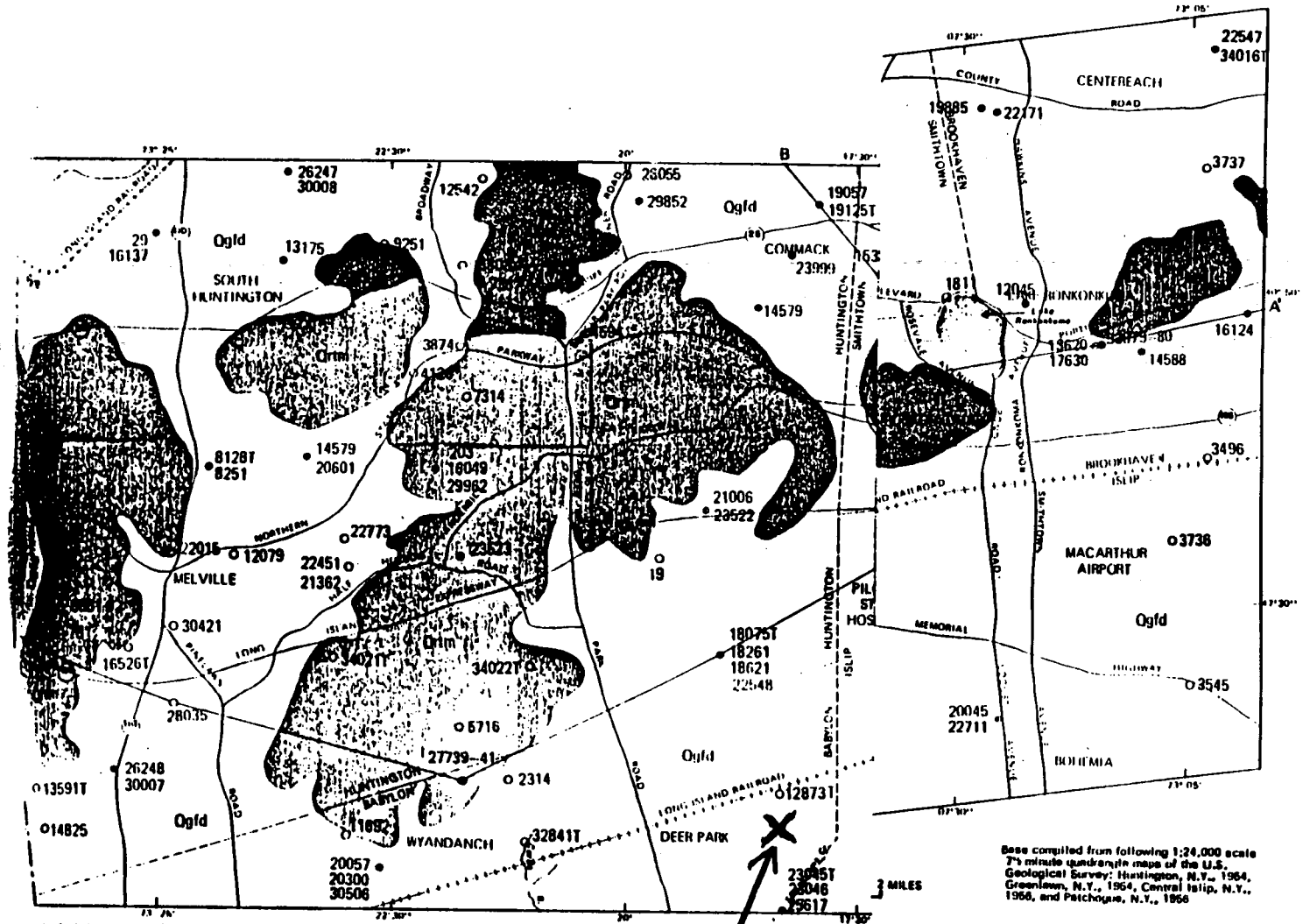


Figure 3.--Fluctuations of water levels in wells screened in the upper glacial aquifer and the Magothy aquifer at Hauppauge, N. Y.

Under natural conditions and in relatively undeveloped areas of Long Island, the water table fluctuates over a range of several feet during the year. Under such conditions, the water table has a rhythmic seasonal pattern; the lowest levels are in late autumn and highest levels are in early spring. This pattern of decline and recovery of the water table reflects the greatest losses of water through evapotranspiration during the growing season and the least such losses between growing seasons. The hydrologic systems in such undeveloped areas are in equilibrium, with inflow balancing outflow. However, if large amounts of water are continually pumped out of a ground-water system, the water table declines until equilibrium is reestablished at a lower level, reflecting a loss of ground water from storage and decreased subsurface and stream outflow from the system.

Prepared by
TATES DEPARTMENT OF THE INTERIOR
LOGICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 1
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



Base compiled from following 1:24,000 scale 7½ minute quadrangle maps of the U.S. Geological Survey: Huntington, N.Y., 1964, Greenlawn, N.Y., 1964, Central Islip, N.Y., 1966, and Patchogue, N.Y., 1966

Surficial geology adapted largely from Lubke, 1964, and Pishowski and Kantrowitz, 1944

Comercial Envelope Mfg. Co. Inc.

EXPLANATION

PLEISTOCENE

Ohtm — Harbor Hill terminal moraine
Crudely stratified sand and gravel; some boulders and till

Ronkonkoma terminal moraine
Crudely stratified sand and gravel; some boulders and till

Ground moraine and retreatal outwash
Till, some boulders, and some stratified sand and gravel

Ogfd — Glaciofluvial deposits
stratified sand and gravel in melt-water spillways and outwash plains

● 29852
Public-supply well
Number is well-identification number. Prefix "S" is omitted

● 29776 78
Test-drilling site and test well numbers

○ 21009
Miscellaneous well (observation, industrial, or institutional) and number

A ——— A'
Geologic section
(see plate 5)

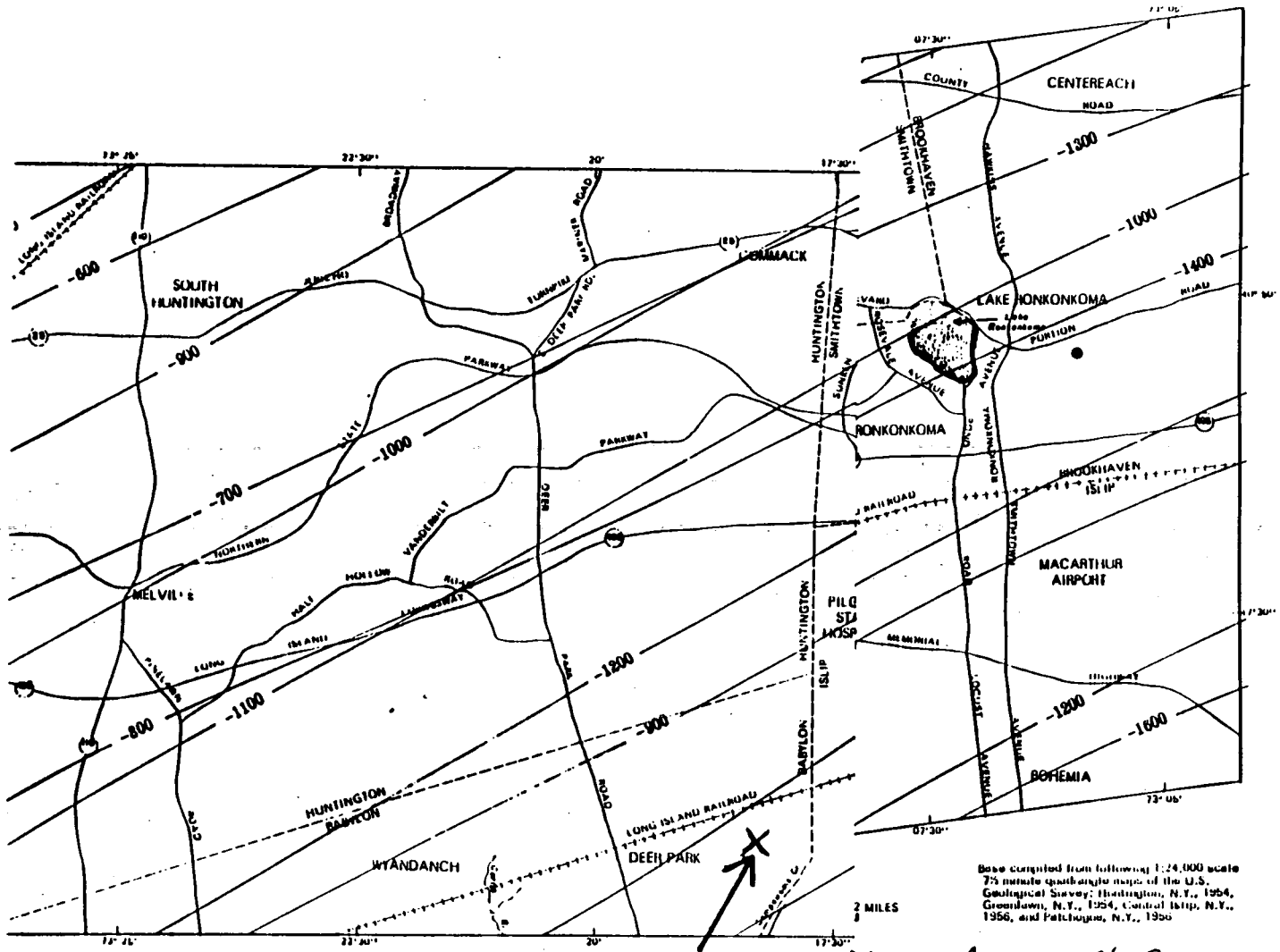
Geologic contact

MAP OF MID-ISLAND AREA SHOWING .S

045

Prepared by
'ES DEPARTMENT OF THE INTERIOR
GICAL SURVEY, Albany, N.Y.

PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



Commercial Envelope Mfg. Co. Inc

EXPLANATION

—— -1300 ——

Bedrock contour

Shows altitude of bedrock surface. Contour interval, 100 feet. Datum is mean sea level. (Control based largely on data outside area.)

—— -700 ——

Structure contour

Shows altitude on top of Lloyd Sand Member. Contour interval, 100 feet. Datum is mean sea level. (Control based largely on data outside area.)

●

Well that penetrates the Lloyd aquifer and bedrock

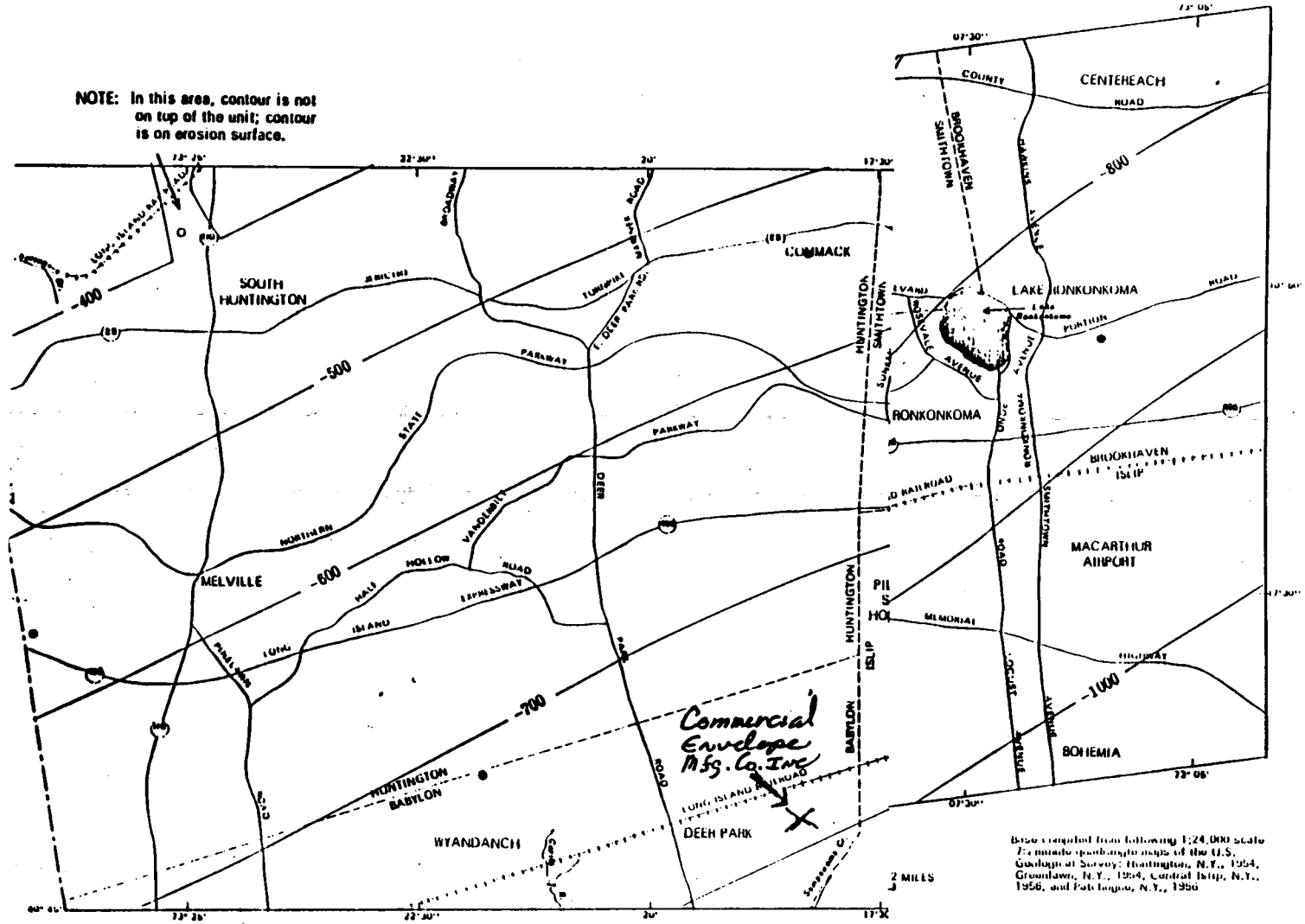
MAP OF MID-ISLAND AREA SHOWING CONTOURS OI OF THE LLOYD SAND MEMBER OF THE RARITAN FORMATION

050

Prepared by
I STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 3
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY

NOTE: In this area, contour is not on top of the unit; contour is on erosion surface.



EXPLANATION

—— -600 ——
Structure contour
Shows altitude of top of clay member of Raritan Formation. Contour interval, 100 feet. Datum is mean sea level. (Control based in part on data outside area.)

●
Well that penetrates clay member surface

o
Deep well that does not penetrate clay member surface

Base compiled from following 1:24,000 scale 7½-minute quadrangle maps of the U.S. Geological Survey: Huntington, N.Y., 1954, Greenlawn, N.Y., 1954, Central Islip, N.Y., 1956, and Babylon, N.Y., 1956

MAP OF MID-ISLAND AREA SHOWING CONTOURS (FORMATION

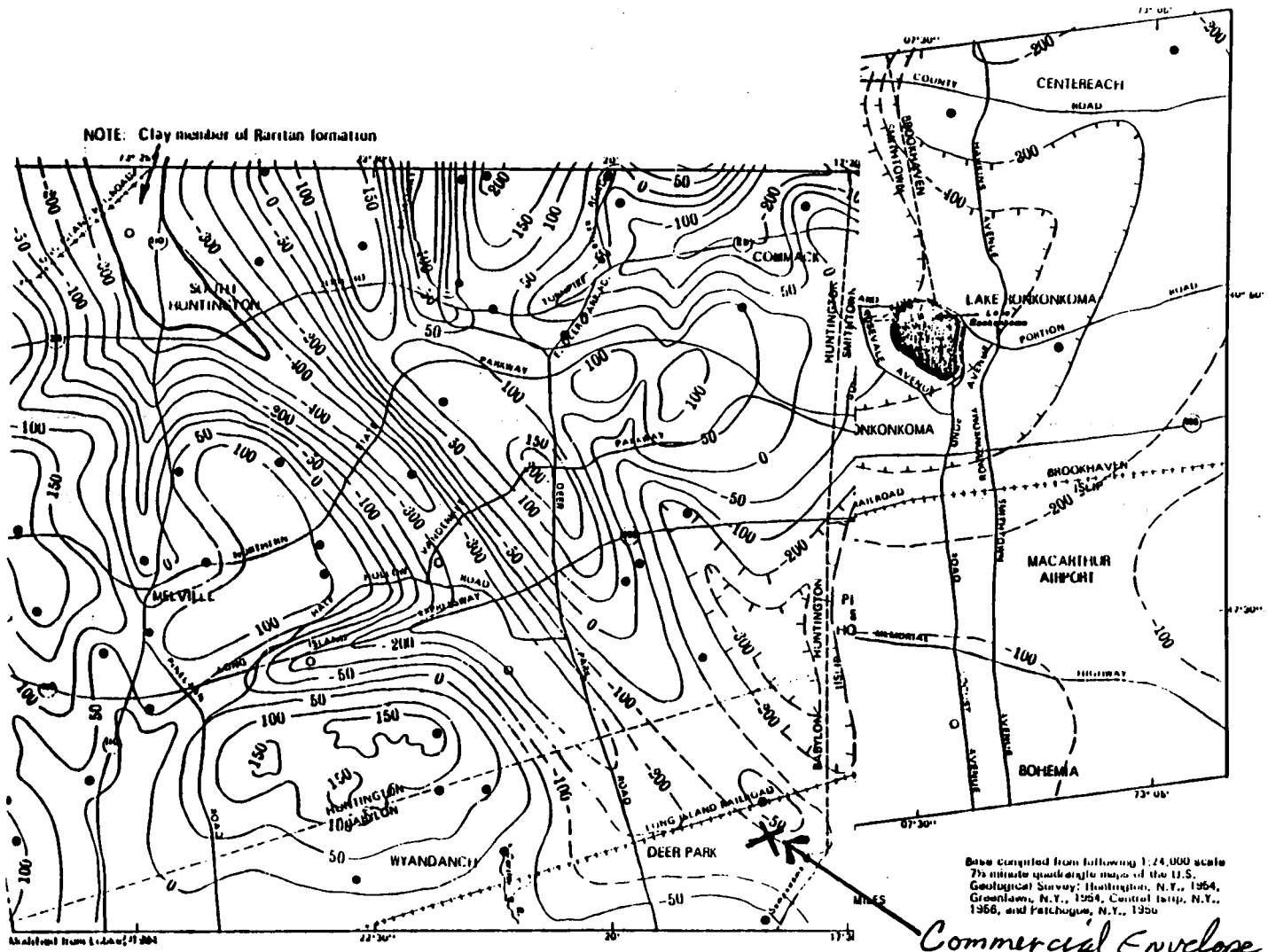
051

Prepared by
ITES DEPARTMENT OF THE INTERIOR
OGICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 4

PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY

NOTE: Clay member of Raritan formation



Commercial Envelope Mfg. Co. Inc

EXPLANATION

-100

Approximate contour on Matawan Group-Magothy Formation, undifferentiated surface

Shows altitude of erosion surface developed on Matawan Group-Magothy Formation undifferentiated. Dashed where inferred. Contour interval, 50 and 100 feet. Datum is mean sea level.

●

Well that penetrates Matawan Group-Magothy Formation, undifferentiated surface

○

Deep well that does not penetrate Matawan Group-Magothy Formation, undifferentiated surface

Approximate geologic contact

P OF MID-ISLAND AREA SHOWING CONTOURS ON THE 9N, UNDIFFERENTIATED

052

REFERENCE NO. 2

Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water-Management Alternatives

By O. L. FRANKE *and* N. E. McCLYMONDS

HYDROLOGY AND SOME EFFECTS OF URBANIZATION ON LONG ISLAND, NEW YORK

GEOLOGICAL SURVEY PROFESSIONAL PAPER 627-F

Prepared in cooperation with the New York State Department of Conservation, Division of Water Resources; the Nassau County Department of Public Works; the Suffolk County Board of Supervisors; and the Suffolk County Water Authority

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 1972

054

TABLE 2.—*Summary of the rock units and their water-bearing properties, Long Island, N.Y.*

[After McClymonds and Franke, 1971]

System	Series	Geologic unit	Hydrogeologic unit	Approximate maximum thickness (feet)	Depth from land surface to top (feet)	Character of deposits	Water-bearing properties
Quaternary	Holocene	Artificial fill, salt marsh deposits, stream alluvium, and shoreline deposits.	Holocene deposits	50	0	Sand, gravel, clay, silt, organic mud, peat, loam, and shells. Colors are gray, brown, green, black, and yellow. Holocene artificial-fill deposits of gravel, sand, clay, and rubbish.	Permeable sandy beds beneath barrier beaches yield fresh water at shallow depths, brackish to salty water at greater depth. Clay and silt beneath bays retard salt-water encroachment and confine underlying aquifers. Stream-flood-plain and marsh deposits may yield small quantities of water, but are generally clayey or silty and much less permeable than underlying upper glacial aquifer.
	Pleistocene	Upper Pleistocene deposits	Upper glacial aquifer	600	0–50	Till (mostly along north shore and in moraines) composed of clay, sand, gravel, and boulders. Forms Harbor Hill and Ronkonkoma terminal moraines. Outwash deposits (mostly between and south of terminal moraines, but also interlayered with till) consist of quartzose sand, fine to very coarse, and gravel, pebble to boulder sized. Glaciolacustrine deposits (mostly in central and eastern Long Island) and marine clay (locally along south shore) consist of silt, clay, and some sand and gravel layers; includes "20-foot clay" in southern Nassau County and Queens County. Colors are mainly gray, brown, and yellow; silt and clay locally are grayish green. Contains shells and plant remains, generally in finer grained beds; also contains *Foraminifera*. Contains chlorite, biotite, muscovite, hornblende, olivine, and feldspar as accessory minerals; "20-foot clay" commonly contains glauconite.	Till is poorly permeable; commonly causes perched-water bodies and impedes downward percolation of water to underlying beds. Outwash deposits are moderately to highly permeable; specific capacities of wells tapping them range from about 10 to more than 200 gpm per foot of drawdown. Good to excellent infiltration characteristics. Glaciolacustrine and marine clay deposits are mostly poorly permeable, but locally have thin moderately permeable layers of sand and gravel; generally retard downward percolation of ground water. Contains fresh water, except near the shorelines. Till and marine deposits locally retard salt-water encroachment.
		—Unconformity?—					
		Gardiners Clay	Gardiners Clay	300	50–400	Clay, silt, and few layers of sand and gravel. Colors are grayish green and brown. Contains marine shells, Foraminifera, and lignite; also glauconite, locally. Altitude of top generally is 50–80 ft below mean sea level. Occurs in Kings and Queens Counties, southern Nassau County, and Suffolk County; similar clay occurs in buried valleys near north shore.	Poorly permeable; constitutes confining layer for underlying Jameco aquifer. Locally, sand layers yield small quantities of water.
		—Unconformity?—					
		Jameco Gravel	Jameco aquifer	300	50–550	Sand, fine to very coarse, and gravel to large-pebble size; few layers of clay and silt. Gravel is composed of crystalline and sedimentary rocks. Color is mostly dark brown. Contains chlorite, biotite, muscovite, hornblende, and feldspar as accessory minerals. Occurs in Kings and Queens Counties, and southern Nassau County; similar deposits occur in buried valleys near north shore.	Moderately to highly permeable; contains mostly fresh water, but brackish water and water with high iron content locally in southeastern Nassau County and southern Queens County. Specific capacities of wells in the Jameco range from about 20 to 150 gpm per foot of drawdown.
		—Unconformity—					
Tertiary(?)	Pliocene(?)	Mannetto Gravel	(Commonly included with upper glacial aquifer.)	300	0–120	Gravel, fine to coarse, and lenses of sand; scattered clay lenses. Colors are white, yellow, and brown. Occurs only near Nassau-Suffolk County border near center of island.	Highly permeable, but occurs mostly above water table. Excellent infiltration characteristics.
		—Unconformity—					
Cretaceous		Magothy Formation	Magothy aquifer	1,100	0–600	Sand, fine to medium, clayey in part; interbedded with lenses and layers of coarse sand and sandy and solid clay. Gravel is common in basal 50–200 ft. Sand and gravel are quartzose. Lignite, pyrite, and iron oxide concretions are common; muscovite, magnetite, rutile, and garnet are accessory minerals. Colors are gray, white, red, brown, and yellow.	Most layers are poorly to moderately permeable; some are highly permeable locally. Specific capacities of wells in the Magothy generally range from 1 to about 30 gpm per foot of drawdown, rarely are as much as 80 gpm per ft. Water is unconfined in uppermost parts, elsewhere is confined. Water is generally of excellent quality but has high iron content locally along north and south shores. Constitutes principal aquifer for public-supply wells in western Long Island, except Kings County where it is mostly absent. Has been invaded by salty-ground water locally in southwestern Nassau County and southern Queens County, and in small areas along north shore.

TABLE 2.—*Summary of the rock units and their water-bearing properties, Long Island, N.Y.*—Continued

System	Series	Geologic unit		Hydrogeologic unit	Approximate maximum thickness (feet)	Depth from land surface to top (feet)	Character of deposits	Water-bearing properties
		Unconformity						
Cretaceous	Upper Cretaceous	Raritan Formation	Clay member	Raritan clay	300	70–1,500	Clay, solid and silty; few lenses and layers of sand; little gravel. Lignite and pyrite are common. Colors are gray, red, and white, commonly variegated.	Poorly to very poorly permeable; constitutes confining layer for underlying Lloyd aquifer. Very few wells produce appreciable water from these deposits.
			Lloyd Sand Member	Lloyd aquifer	500	200–1,800	Sand, fine to coarse, and gravel, commonly with clayey matrix; some lenses and layers of solid and silty clay; contains thin lignite layers and iron concretions locally. Locally, has gradational contact with overlying Raritan clay. Sand and most of gravel are quartzose. Colors are yellow, gray, and white; clay is red locally.	Poorly to moderately permeable. Specific capacities of wells in the Lloyd generally range from 1 to about 25 gpm per foot of drawdown, rarely are as much as 50 gpm per ft. Water is confined under artesian pressure by overlying Raritan clay; generally of excellent quality but has high iron content locally. Has been invaded by salty ground water locally in necks near north shore, where aquifer is mostly shallow and overlying clay discontinuous. Called deep confined aquifer in some earlier reports.
		Unconformity						
Precambrian		Bedrock		Bedrock	----------	0–2,700	Crystalline metamorphic and igneous rocks; muscovite-biotite schist, gneiss, and granite. A soft clayey zone of weathered bedrock locally is more than 100 ft thick.	Poorly permeable to virtually impermeable; constitutes virtually the lower boundary of ground-water reservoir. Some hard, fresh water is contained in joints and fractures, but is impracticable to develop at most places; however, a few wells near the western edges of Queens and Kings Counties obtain water from the bedrock.

The fresh-salt water interface is not a sharp boundary. The horizontal distance over which the dissolved-solids content of ground water changes from completely fresh to completely salty is generally on the order of 2–3 thousand feet near the south shore of Long Island. Over this distance, the dissolved-solids content of the ground water increases at first gradually in the direction of the salty ground water and then more rapidly.

The fresh-salt water interface is a complex streamline surface, and fresh ground water discharging into the ocean and bays moves parallel to the interface and not across it. The hydrodynamics of a stable interface and, to an even greater degree, an unstable interface that changes position in response to changes in head within the ground-water reservoir, is complicated and beyond the scope of this report. (See Lusczynski, 1961; Cooper, 1964; and Kohout, 1964.)

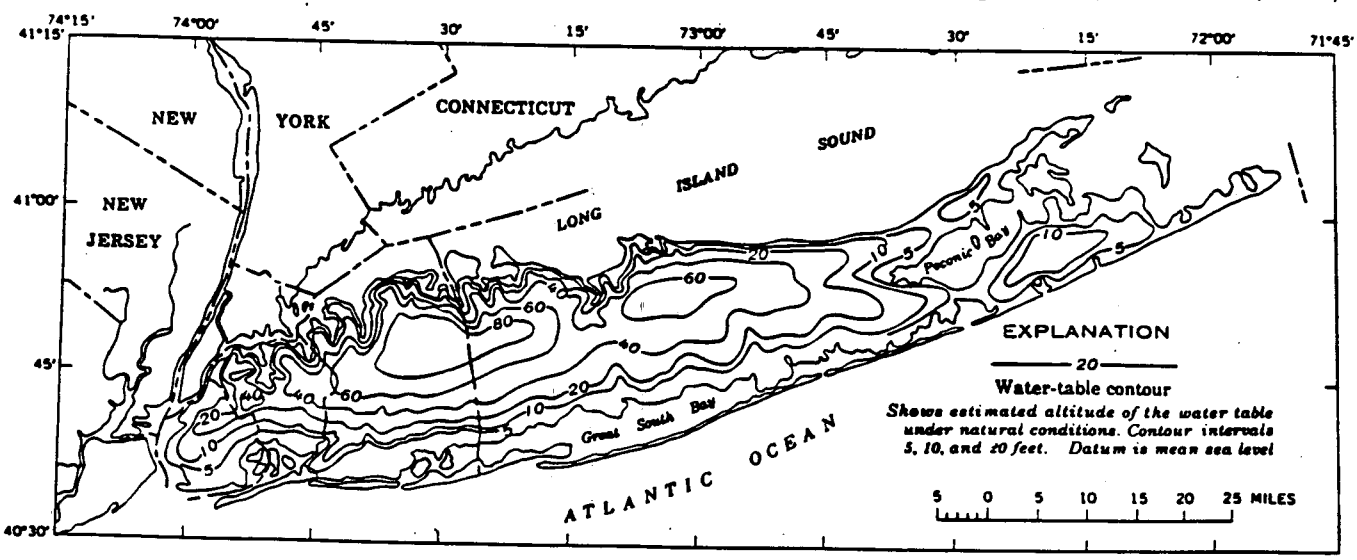


FIGURE 9.—Estimated average position of the water-table under natural conditions.

REFERENCE NO. 3

GOLD & WACHTEL

ROBERT GOLD*
WILLIAM B. WACHTEL
ELLIOT SILVERMAN

STEVEN J. COHEN
SCOTT J. LESSER*
NICOLETTA J. CAFERRI
JOAN C. PROWDA*
JACLYN A. FISCHLER
DAVID M. NIEBAUER

*ALSO MEMBER OF DISTRICT OF COLUMBIA BAR
*ALSO MEMBER OF MASSACHUSETTS BAR
*ALSO MEMBER OF NEW JERSEY BAR
*MEMBER OF FLORENCE (ITALY) BAR ONLY

9 EAST 53RD STREET
NEW YORK, NEW YORK 10022

TELEPHONE: (212) 223-3311
TELECOPIER: (212) 371-0320
TELEX: 6973190

HARRY H. WACHTEL
WALTER CASTORE*
OF COUNSEL

WASHINGTON OFFICE
SUITE 460
INTERNATIONAL SQUARE
875 EYE STREET, N.W.
WASHINGTON, D.C. 20006
(202) 293-7100

EUROPEAN OFFICE
VIA G. LA PIRA, 21
FLORENCE, ITALY 50121
TEL. (055) 284147
TELEX 574306 INTLAW

June 10, 1987

NUS Corporation
1090 King George's Post Road
Suite 1103
Edison, New Jersey 08837

Attention: Joann L. Wagner

Re: Commercial Envelope Manufacturing Co., Inc. ("CEM") Proposed Site Investigation

Dear Ms. Wagner:

Thank you for your letter of April 24, 1987. I have subsequently received confirmation from the Environmental Protection Agency regarding the scope of your authority.

As we discussed, CEM has recently undergone a clean-up of its premises in accordance with a Consent Order entered into with the Suffolk County Department of Health Services ("SCDHS"), dated as of November 12, 1985. We discussed the possibility of NUS' study to be limited to a "non-sampling" site inspection if the documentation provided by CEM is current and satisfactory. In that regard, I am enclosing copies of the following:

(1) The April 10, 1986 letter from Geraghty & Miller, Inc., the ground water consultants retained by this firm, to James Maloney, P.E. of the SCDHS including the copies of the analytical results from samples collected from two monitoring wells installed on the premises;

(2) Analytical results, dted March 16, 1986, taken from the third monitoring well ("DP1"), installed off the premises as well as from one of the previously installed wells ("DP3"); and

(3) Appendix "A" to the Consent Order which gives you an idea of the location of the monitoring wells.

As you can see from the April 10 letter, Geraghty & Miller requested permission from the SCDHS to install the third monitoring well off site at an upgradient location in order to verify whether off-site activities were responsible for the existence of a volatile organic compound. Permission was granted by the SCDHS to install the third well. The following is an excerpt from Geraghty & Miller's report to us of its findings after review of the March 16, 1987 analytical results:

"Prior to collection of the February 27, 1987 samples [those reflected in March 16 results), six gallons of water were removed from each well to ensure that the samples were representative of water contained in the aquifer. The sample for metals was passed through a 0.45-micron filter prior to preservation. Analytical results for the samples are enclosed. For DP1, 2 ug/l of 1,1,1-trichloroethane and 5 ug/l of toluene were detected. For DP3, 11 ug/l of trichlorofluoromethane and 5 ug/l of tetrachloroethene were present. Although 1,2-dichloroethane was previously detected in DP3, none was present in the recent sample.

Given the low concentrations of VOCs (volatile organic compounds) present in the latest samples, the fact that such compounds (although different) exist at both upgradient and downgradient locations, and the likelihood that the two compounds found in DP3 are probably not attributable to site activities, we see no point in pursuing further investigation

of the site. We will be glad to answer any questions either your or Mr. Maloney may have regarding this matter."

Should you need further information, please contact me.

Very truly yours,

Steven J. Cohen

SJC/hp
Encls.
cc (w/encls.): Mr. Ira B. Kristel

See me for info
Jim

GERAGHTY & MILLER, INC.
Ground-Water Consultants

April 10, 1986

RECEIVED
APR 14 1986
SUF. DEPT. OF HEALTH SERVICES

Mr. James C. Maloney, P.E.
Suffolk County Department of Health Services
15 Horseblock Place
Farmingville, New York 11738

Re: Commercial Envelope Manufacturing Co.
Project No. N0985GW1

Dear Mr. Maloney:

Enclosed are copies of the analytical results for samples collected from the two monitoring wells which have been installed on the subject property. Both wells are at downgradient locations; Well DP2 is just south of the loading dock area and Well DP3 is about 75 feet south and 50 feet east of the northeast corner of the new warehouse building. Each well is equipped with 10 feet of screen, set from 20 to 30 feet below grade at DP2 and 15 to 25 feet below grade at DP3. Static water levels were approximately 21 and 16 feet below grade, respectively.

A 5-foot length of casing is set below the screen in each well and serves as a sump. The wells are 2-inch diameter PVC. No glue was used to join casing and screen sections (stainless steel screws were used). Six gallons of water were bailed from each well prior to sampling. Samples for metals analysis were passed through a 0.45-micron filter prior to acidification. All samples were delivered to the laboratory shortly after collection.

Although elevated concentrations of iron were reported for samples from both wells, such an occurrence may be natural for the area. The absence of other metals indicates that the iron is probably not the result of waste disposal activities. Furthermore, the higher concentration was found at the more downgradient location.

The opposite holds true for 1,2-dichloroethene as 610 ug/L were present in DP2 and 120 ug/L were detected in DP3. However, the lack of significant concentrations of other volatile organic compounds may preclude past site activities as being responsible for the presence of 1,2-dichloroethene. We, therefore, plan to install a third monitoring well at an upgradient location.

North Shore Atrium • 6800 Jericho Turnpike • Syosset, New York 11791 • (516) 921-6060
Cable: WATER • Telecopy: (516) 921-6273

Because it may not be possible to establish the locations of underground utilities with absolute certainty and the fact that potential on-site drilling locations are in any event limited (overhead power lines), we would like to install the well just north of Grand Boulevard on County-owned land, such as the road right-of-way. Please let us know if this would be possible, and, if not, what would be an acceptable alternative.

We look forward to hearing from you and appreciate your assistance in this matter.

Sincerely,

GERAGHTY & MILLER, INC.

Douglas R. MacCallum
Senior Scientist

Michael J. McEachern
Associate

DRM/MJM:vk
Encl.

cc: S. Cohen, Esq.

COMEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C860268/2

02/24/86

Geraghty & Miller
6600 Jericho Tpke.
Syosset, NY 11791

SOURCE OF SAMPLE: Well DP3
COLLECTED BY: client DATE COL'D:02/06/86 RECEIVED:02/06/86

SAMPLE: water sample

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	120 —
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	4

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	[illegible]
13 Dichlorobenzene	ug/L	1
12 Dichlorobenzene	ug/L	1
14 Dichlorobenzene	ug/L	1
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1

Barium as Ba	mg/L	2.16
Cadmium as Cd	mg/L	0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Iron as Fe	mg/L	12
Lead as Pb	mg/L	<0.005
Nickel as Ni	mg/L	<0.13
Silver as Ag	mg/L	<0.001
Zinc as Zn	mg/L	0.13

cc:

REMARKS:

DIRECTOR Thomas R Heath

003

rn= 750

TOTEST LABORATORIES, INC.

ENVIRONMENTAL TEST

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C860268/1

02/24/86

Geraghty & Miller
6800 Jericho Tpke.
Syosset, NY 11791

SOURCE OF SAMPLE: Well DP2
COLLECTED BY: client DATE COL'D:02/06/86 RECEIVED:02/06/86

SAMPLE: water sample

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<1
Vinyl Chloride	ug/L	2
Chloroethane	ug/L	<1
Methylene Chlorice	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	610
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	[illegible]
13 Dichlorobenzene	ug/L	[illegible]
12 Dichlorobenzene	ug/L	[illegible]
14 Dichlorobenzene	ug/L	[illegible]
Benzene	ug/L	[illegible]
Toluene	ug/L	[illegible]
Ethyl Benzene	ug/L	<1

Barium as Ba	mg/L	0.14
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Iron as Fe	mg/L	4.3
Lead as Pb	mg/L	<0.005
Nickel as Ni	mg/L	<0.10
Silver as Ag	mg/L	<0.001
Zinc as Zn	mg/L	0.16

cc:

REMARKS:

DIRECTOR Thomas R Smith

n= 749

064

ENVIRONMENTAL LABORATORIES, INC.

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-3777

LAB NO. C870378/1 03/16/87

Geraghty & Miller, Inc.
125 East Bethpage Rd.
Plainview, NY 11803
ATTN: Andy Barber

SOURCE OF SAMPLE: Project #N0852WS1
COLLECTED BY: Client DATE COL'D:02/27/87 RECEIVED:02/27/87

SAMPLE: Water sample, DP1

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	2
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	5
Ethyl Benzene	ug/L	<1
Barium as Ba	mg/L	0.10
Cadmium as Cd	mg/L	0.001
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Iron as Fe	mg/L	<0.05
Lead as Pb	mg/L	<0.005
Nickel as Ni	mg/L	<0.10
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	0.12

cc:

REMARKS:

DIRECTOR Thomas R Gentile

rn= 1258

[illegible] LABORATORIES, INC.

[illegible]

[illegible] SHEFFIELD AVE. P.O. BABYLON, N.Y. 11702 (516) [illegible]

LAB NO. C870378/2 03/16/87

Geraghty & Miller, Inc.
125 East Bethpage Rd.
Plainview, NY 11803
ATTN: Andy Barber

SOURCE OF SAMPLE: Project #N0852WS1
COLLECTED BY: Client DATE COL'D:02/27/87 RECEIVED:02/27/87

SAMPLE: Water sample, DP3

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	11
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	5 -

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1

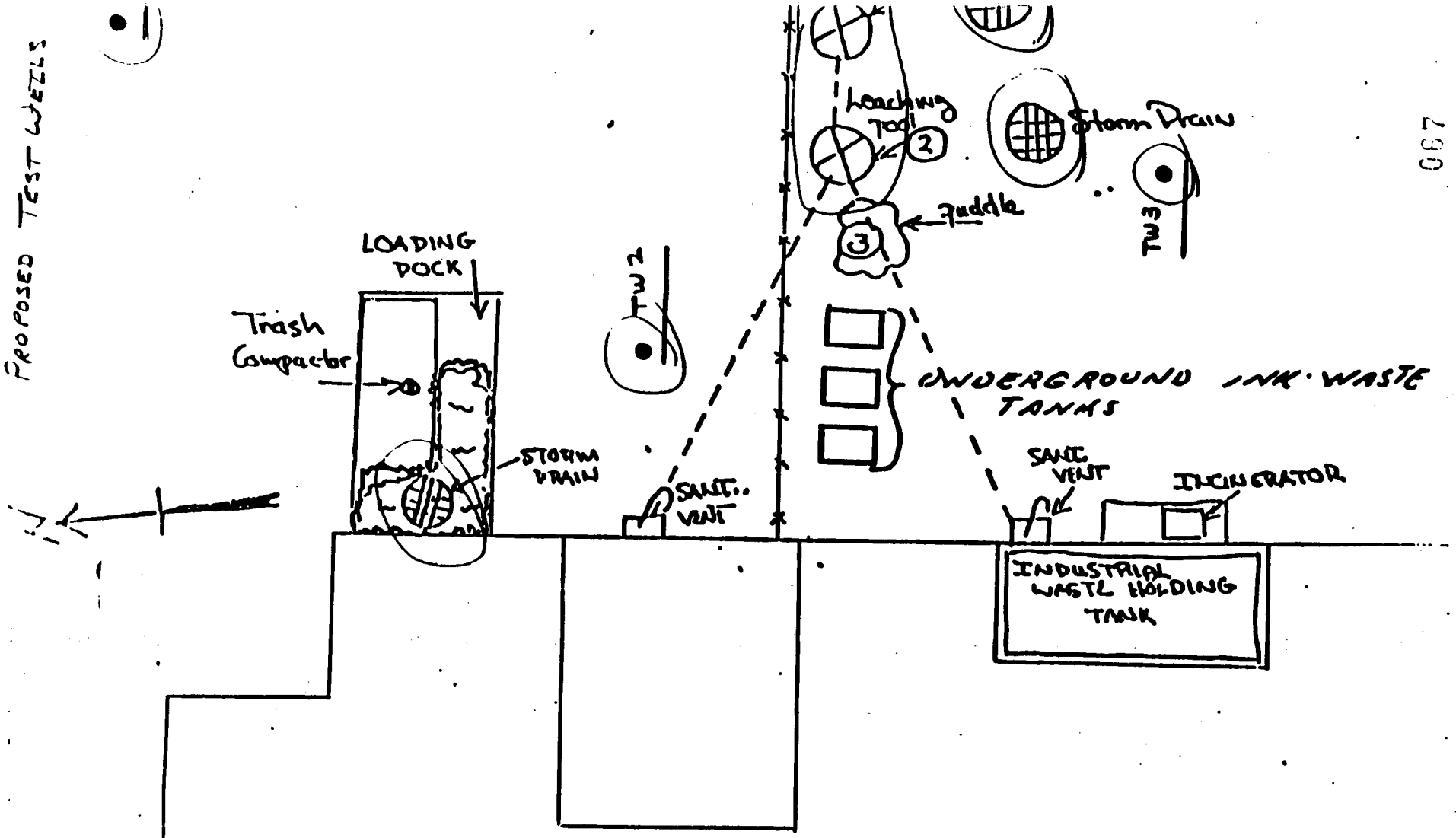
cc:

REMARKS:

DIRECTOR Thomas R. Geatti

rn= 1259

APPROXIMATE LOCATIONS
PROPOSED TEST WELLS



Commercial Envelope Mfg. Co.
900 Grand Blvd. Deer Park, NY

APPENDIX # A

PAGE 1 OF 1

ORDER ON CONSENT # _____

REFERENCE NO. 4

008

0028-F
02.8704.03

NUS CORPORATION

II

0101

Commercial Envelope Mfg. Co. Inc.
Deer Park, New York
TDD# 02-8704-03
Project Manager: E. Leonard
Logbook# 101
July 9, 1987

TDD # 02-8704-03

~~TABLE~~

TABLE OF CONTENTS

1-15 DAILY NOTES

-16 SITE NOTES

2 SUMMARY WALL TABLE

33-34 SUMMARY SAMPLE TABLE

35-36 PHOTO LOG

37 SITE MAP

[illegible] MTG (CON) 11/13/87 4

TDD 02-8704-03

ON-SITE EQUIPMENT

eder associates
consulting engineers, p. c.

Nicholas A. Andrianas
SENIOR PROJECT MANAGER

85 FOREST AVE. • LOCUST VALLEY, N.Y. 11560 • (516) 671-8440

CAMERA (SLIDE) 3
CAMERA (PRINTS) 4
MINIRAD 4
COMPASS
OVA-M
HNU-J 464745
PH METER 192709
SCBA'S -192035 D. DEBRUIJN
-192069 J. MURTAUGH

0 HRS ARRIVE ON-SITE. (WEST PARKING LOT) GO TO RECEPTION AREA TO FIND. S. COHEN SITE REP

26 HRS S. COHEN NOT ON-SITE YET.

34 HRS MEET WITH BW. WACHTER (LAWYER) S. COHEN TO MEET US. MOVE TO EAST PARKING-LOT BY WELLS.

39 HRS MEET S. COHEN - SITE REP (LAWYER)
N. ANDRIANAS - CONSULTANT
L. BRANNIGAN - PLANT MANG.

45 HRS POSITION TRUCK + SET-UP DECON. S. MABURY CHECKING IN AIR EQUIPMENT.

55 HRS NUS PERSONNEL ON SITE
E. LEONARD - PM
S. MABURY - SSO
P. DOHERTY - SMO

C. Leonard 7/15/87

P. Doherty 7/2/87

TDD# 02-8704-03

D. DEBRUIJN - SAMP
G. GILLILAND - SAMP
J. MURTAUGH - SAMP/DECON

53 HRS J. MURTAUGH + D. DEBRUIJN SUIT-UP FOR LEVEL-B RECON.

54 HRS S. MAYBURY CONDUCTS TAILGATE SAFTY MEETING

11 HRS S. MAYBURY ENDS TAILGATE SAFTY MEETING.

5 HRS ALL SUITED-UP. AREA TOTALLY PAVED, ~~WELLS~~ NO EXPOSED SOIL. WELLS + LEACHING TANKS PAVED OVER W/ ASPHALT. THESE WELLS AVAILABLE FOR SAMPLING. WAREHOUSE BUILDING NOW LEASED BY PEPSI-COLA CO.

23 HRS. S. COHEN + N AND RAINES JOIN US FOR LEVEL-B RECON.

26 HRS DAN ON AIR LEVEL-B STARTED ON EAST SIDE OF WAREHOUSE

29 HRS NO READINGS ABOVE BACKGROUND ON OVA. ALONG EAST SIDE OF WAREHOUSE

34 HRS MAIN BUILDING NO READING ABOVE BACKGROUND ON ~~OVA~~ OVA (EAST SIDE).

C L Leonard 7/15/87 073 C. Doherty 7/21/87

TDD # 02-8704-03

6 HRS BARE AREA NEAR TRASH COMP ON LAWN NO READINGS ABOVE BACKGROUND ON OVA.
PVC PIPE EXPOSED IN BARE AREA.

40 HRS ~~EAST~~ WEST SIDE OF ~~WAREHOUSE~~ MAIN BUILDING ELL
SOLVENT STORAGE SHED NEEDS HOUSE KEEPING. ~~LUBRICATING~~ ELL EMPTY DRUMS, OUTSIDE. FULL DRUMS, SOVENTS IN SHED. MOST GLUES WATER BASED. ALCOHOLS IN SHED

44 HRS NO READ ABOVE BACKGROUND ON OVA AROUND SOLVENT SHED. IN SOLVENT SHED (ALCOHOLES) OVA - 2 PPM + 4 PPM ON HNU. BOTTOM OF SHED FULL OF LIQUID.

45 HRS STAINED AREA SOUTH OF SHED. NO READINGS ABOVE BACK GROUND ON ~~OVA~~ HNU + OVA.

48 HRS SOUTH/WEST CORNER OF ~~WAREHOUSE~~ MAIN BUILDING ELL NO READINGS ABOVE - BACK GROUND ON OVA.

49 HRS BELL GOES OF DAN DEBRUNN OFF AIR. BACK TO COMMAND AREA.

056 HRS DAN, STEVE + JOE BACK TO AREA TO REST. ED + N. ~~[illegible]~~ ANDRIANAS (CONSULTANT) LOOK FOR UPGRADIENT WELL.

E L Leonard 7/15/87 074 [signature] 7/21/87

TDD # 02-8704-03

06 HRS S. COHEN GOES TO ~~TALK TO~~ PHONE EH CONTRACTOR TO FIND EXACT WELL LOCATION.

HRS S. COHEN BACK, W ~~BW~~ EH WACHTEL. GEOLOGIST WHO ASST. IN INSTILLATION OF WELL WILL BE BACK AT 1300 HRS.

29 HRS PREP TO MONITOR TWO DOWN GRADIENT WELLS.

142 HRS

~~140 HRS~~ EH JOE MURTAUGH ON AIR TO OPEN WELL TW2 + take air + WELL MEASUREMENTS.

145 HRS NO READ ON HNU, ABOVE BACKGROUND. 480 ppm ON OVA IN WELL.

22.2 FT

148 HRS ~~21 FT 7 IN~~ EH TO WATER LEVEL

150 HRS 34.2 FT TO BOTTOM

1155 HRS J. MURTAUGH STARTS BAILING WELL.

12 FEET OF WATER ~~COLUMN~~ COLUMN EH 2.1 GAL / VOLUME.

206 HRS J. MURTAUGH OFF AIR.
D. DEBRUIJN ON AIR.
D. DEBRUIJN DUMPS ~ 4 GAL WATER FROM ~~TP1~~ TW2 INTO STORM DRAIN.

C L Leonard 7/15/87 C Doherty 7/21/87

075

TDD# 02-8704-03

-07 HRS DRAEGER TUBE SHOWS POSITIVE FOR VINYL CHLORIDE. WATER VERY SILTY.

14 HRS PHOTO OF D. DEBRUIJN BAILING WELL TW-2

-16 HRS J. MURTAUGH STARTS SAMPLING TW-2, ON AIR
D. DEBRUIJN FINISHED BAILING WELL OFF AIR. REMOVES ~ 8 GALLON OR JUST LESS THAN 4 VOLUMES.
DRAEGER READING OF VINYL CHLORIDE 2.5 PPM

31 HRS PHOTO J. MURTAUGH SAMPLING TW-2

-41 HRS FINISHING SAMPLING TW-2

-46 HRS J. MURTAUGH OFF AIR.

51 HRS S. COHEN COMES OUT TO SEE HOW WE HAVE PROGRESSED. ASK FOR A LIST OF ALL NUS PERSONNEL ON SITE. I GAVE HIM A COPY
TALK TO S. COHEN:

1304 HRS - OWNER MAS BLVD ASSOC
- CONTAMINATED SOIL TO WEST OF STORAGE TANKS. TO HIS KNOWLEDGE NEVER REMOVED. PREVIOUS OCCUPANT WILL GET BACK.
S. COHEN LEFT SITE

[signature] 7/15/87

076

[signature] 7/20/87

TDD # 02-8704-03

10 HRS HEAD TO WELL TW-3.

16 HRS D. DEBRUIJN ON AIR. + OPENS WELL

HRS NO READINGS ABOVE BACKGROUND ON HNU.

HRS NO READINGS ABOVE BACKGROUND ON ~~HNU~~ OVA.

24 HRS WATER LEVEL TW-3 ~~16.0~~ 16.0 FEET
BOTTOM 30.0 FEET
WATER COLUMN 14.0 FT
2.4 GALLONS / VOL

27 HRS WATER ~~VERY~~ REDDISH BROWN. N. ANDRIANAS STATES PROBABLY DUE TO HIGH IRON.

HRS D. DEBRUIJN BAILING WELL TW-3.

HRS J. MURTAUGH ON AIR. TAKING DRAGGER TUBE READING.

HRS D. DEBRUIJN OFF AIR.

HRS D. DEBRUIJN ON AIR. + BAILING WELL

CR Leonard 7/15/87 [illegible] 7/4/87

077

TDD # 02-8704-03

39 HRS. J. MURTAUGH OFF AIR.

342 HRS 0.5 ppm VINYL CHLORIDE ON DREGER TUBE, TW-3. (IN WELL).

348 HRS { REMOVED ~ 10 GALLONS = ~ 4 VOLUMES. D. DEBRUIJN FINISHES BAILING.

51 HRS { J. MURTAUGH ON AIR. START SAMPLING WELL. OBTAINED PHOTO OF J. MURTAUGH SAMP WY&FGW1.

53 HRS D. DEBRUIJN OFF AIR.

402 HRS AMBIENT READING ON DREGER OF VINYL CHLORIDE IS 0.25 ppm.

404 HRS FINISH SAMPLING TW-3.

1406 HRS J. MURTAUGH OFF AIR.

1411 HRS ALL BACK AT COMMAND AREA TAKING BREAK.

1430 HRS BREAK OVER. J. MURTAUGH SUITS-UP FOR SOIL SAMPLES.

1448 HRS J. MURTAUGH SUITED-UP. GO TO WEST SIDE OF MAIN BUILDING TO TAKE SOIL SAMPLES.

C L Leonard 7/15/87

C Dubertey 7/21/87

078

TDD# 02-8704-03

453 HRS J MURTAUGH ON RESPIRATOR. TO OBTAIN SOIL SAMPLE S-1.

454 HRS J. MURTAUGH STARTS OBTAINING S-1 0-6 INCHES. NO READINGS ABOVE BACK GROUND ON HNU.

457 HRS OBTAIN PHOTO OF J. MUTAUGH OBTAINING S-1. SOIL VERY SANDY, LOOKS CLEAN.

459 HRS FINISHING OBTAINING S-1.

1501 HRS START SAMPLING FOR S-2, J. MURTAUGH.

1503 HRS 10 ppm ON HNU. J. MURTAUGH BACKS OFF. S. MAYBURY BACK TO COMMAND POST FOR SCBA. 10ppm READING IN HOLE NOT IN BREATHING AREA. J. MURTAUGH OFF RESPIRATOR. NO READINGS ABOVE BACK GROUND ON OVA

1505 HRS S. MAYBURY BACK + J. MURTAUGH PUTS ON SCBA.

1509 HRS J. MURTAUGH ON AIR. + CONTINUES SAMPLING S-2.

1510 HRS OBTAIN PHOTO OF J. MURTAUGH TAKING S-2. OVA READS 4PPM IN HOLE.

1512 HRS SOIL ~~VERY DARK~~ FILL SANDY WITH DARK SPOTS. READINGS ON OVA

STRATIFICATION

[signature] 7/15/87 [signature] 7/21/87

ABOVE HOLE AT ~ 0.25 ppm. Depth 0 -6 INCHES.

1515 HRS FINISHING SAMPLING. J. MURTAUGH OFF AIR.

1519 HRS BACK AT COMMAND POST. GO MEET N. ANDRIANAS TO FIND WELL TW-1

1530 HRS FOUND WELL TW-1 ON NORTH SIDE OF GRAND BLVD IN DRAINAGE AREA OF ROAD, 20 FEET WEST OF FIRE HYDRANT (SOUTH SIDE OF ROAD).

1535 HRS D. DEBRUIJN ON AIR.

1548 HRS WELL CAP LOCKED-ON. D. DEBRUIJN OFF AIR. N. ANDRIANAS TO COM TO GET BOLT CUTTERS.

1551 HRS N. ANDRIANAS COMES BACK, MAINTANCE WILL BRING OUT BOLT CUTTERS.

1610 HRS N. ANDRIANAS WENT TO BUY ~~GET~~ A PAIR OF BOLT CUTTERS.

1625 HRS WAITING FOR BOLT CUTTERS S. MAYBURY + B. LEONARD TO

C Leonard 7/15/87 080 C Doherty 7/21/87

TDD # 02-8704-03

AREA WHERE SOIL SAMPLES WERE ~~TO~~ ZII OBTAIN MEASUREMENTS.

1630 HRS ~~&~~ S-1 6 FEET FROM SOLVENT SHED 3 FEET FROM BUILDING

S-2 2.6 FEET FROM SOLVENT SHED. 7 FEET FROM BUILDING.

1634 HRS BACK TO WELL. PLANT MANAGER WITH BOLT CUTTER BREAKS LOCK.

1636 HRS D. DEBRUIJN ON AIR.

1637 HRS NO READINGS ABOVE BACKGROUND ON QUADRAHNU.

1630 HRS TW-1 WATER LEVEL 19.5 FEET BOTTOM 33.3 FEET
~~WATER COLUMN 13.8~~ ZII

1640 HRS D. DEBRUIJN STARTS BAILING WELL.

13.8 FEET OF WATER COLUMN
2.4 GALLONS/VOL

1653 HRS PHOTO D. DEBRUIJN BAILING TW-1. WATER IS SILTY.

EK Leonard 7/15/87 081 [illegible]

[illegible] 7/15/87

TDD # 02-8704-03

58 HRS. D. DEBRUIJN FINISHED BAILING REMOVED ~10 GALLONS = ~4 VOLUMES

59 HRS D. DEBRUIJN OFF AIR

02 HRS D. DEBRUIJN ON AIR NEW TANK. STARTS SAMPLING TW-1 (NY$1 - GW3).

704 HRS TAKE PHOTO OF D. DEBRUIJN SAMPLING

709 HRS D. DEBRUIJN FINISHES SAMPLING

711 ~~HRS~~ HRS RH D. DEBRUIJN OFF AIR

716 HRS PHOTO OF CEM SIGN.

1718 HRS BACK TO COMMAND POST

1720 HRS SMO PACKING SAMPLES. ALL OTHER PERSONNEL PACKING UP EQUIPMENT.

1733 HRS CALL J. MAYO FROM CEM MAINBUILDING.

1737 HRS ~~OFF~~ FINISH WITH J. MAYO BACK TO COMMAND AREA

~~16~~ 1809 HRS LEAVE SITE
RH

E L Leonard 7/18/87 [illegible] 7/21/87

TDD# 02-8704.03

823 ROD REX DROP OFF SAMPLES.

1830 HRS LEAVE ROD REX.

SITE NOTES

WEATHER:

- AM: HAZY + WARM. TEMP 75-80° F STEADY WIND S/E AT ~ 5MPH
- PM: OVERCAST, HOT + HUMID (HIGH) TEMP 85-90° F STEADY WIND S/E 5-10 MPH.

NON-NUS CORP. PERSONNEL ON-SITE
WILLIAM WACHTER - SITE LAWYER: GOLD + WACHTER
STEVE COHEN - SITE REP/SITE LAWYER: GOLD + WACHTER
NICK ANDRIANAS - SITE CONSULTANT: FEDER ASSOC.
LEROY BRANNAGAN - PLANT MANAGER: CSM

NO EXPOSED SOIL AROUND & SOUTH OF LEACHING POOLS + UNDERGROUND TANKS. ENTIRE AREA COVERED WITH ASPHALT + PRESENTLY A PARKING LOT.

NO CONDUCTIVITY METER USED ON-SITE. A WORKING METER WAS NOT AVAILABLE, COULD NOT CALIBRATE.

A ~~NO~~ ELEC WORK PH METER WAS NOT AVAILABLE. ON 7/10/87 PH METER (192709) WAS CALIBRATED. ON 7/13/87 THIS METER WOULD NOT CALIBRATE, READ -1.4 IN 7.0 PH BUFFER.

7/15/87 7/21/87

083

CEM 1/13/87
TDD 02-8704-03

- WATER FROM ALL THREE MONITORING WELLS DEPOSITED IN STORM DRAIN NEAR PEPSI GATE (SEE MAP PG 37). ALL DECON WATER ALSO DEPOSITED IN STORM DRAIN.

- RECEIPT FOR SAMPLES WAS NOT OFFERED TO SITE REP. SITE REP LEFT SITE BEFORE SAMPLING FINISHED. SITE REP WAS S. COHEN + LEFT ~ 1300 HRS.

- TW → TEST WELL

- SITE ACCESS. EAST AND WEST SIDE OF SITE ARE FENCED. NORTH SIDE OF SITE, MAIN ENTRANCE OFF OF GRAND BLVD., IS NOT FENCED. SOUTH SIDE OF SITE IS FENCED, EXCEPT FOR DRIVEWAY OFF OF BURT DRIVE. NO FENCING AROUND SOLVENT STORAGE SHED.

[signature] 7/15/87 [signature] Doherty

TW2	480ppm OVA 2.5ppm VINYL CHLORIDE on DRAEGER 0ppm HNU	22.2FT	34.2FT	2.1GAL	~8GAL
TW3	0ppm OVA 0ppm HNU 0.5ppm VINYL CHLORIDE ON DRAEGER	16.0FT	30.0FT	2.4GAL	~10GAL
TW1	0ppm OVA 0ppm HNU NO DRAEGER READING OBTAINED	19.5FT	33.3FT	2.4GAL	~10GAL

C L Lound 7/15/87 [illegible] 7/21/87

NY$1-GW1	~~1216-1241~~ 1351-1404 HRS	BK399	MBK468	GROUNDWATER FROM ~~TW-2~~ TW-3. LOCATED ~ 30 FT SOUTH OF LOADING DOCK. WATER SILTY. (MS/MSD)
NY$1-GW2	1216-1241 ~~1351-1404~~ HRS	BK400	MBK667	GROUNDWATER FROM ~~TW-2~~ TW-3. LOCATED 75 FT SOUTH ~~FT~~ 50 FT EAST OF THE N/E CORNER OF THE WAREHOUSE. WATER REDDISH BROWN IN COLOR. (ENV. DUP)
NY$1-GW3	1702-1709 HRS	BK501	MBK568	GROUNDWATER FROM TW-1. LOCATED JUST OFF THE EDGE OF THE PAVEMENT ON THE NORTH SIDE OF GRAND BLVD ~ 20 FT WEST OF FIRE HYDRANT (ON SOUTH SIDE OF GRAND BLVD). WATER IS SILTY.
NY$1-S1	1454-1459 HRS	BK376	MBE899	SOIL. LOCATED 6 FT SOUTH OF SOLVENT ~~BUILDING~~ SHED + 3 FT WEST OF BUILDING. CLEAN SANY SOIL. (MS/MSD).
NY$1-S2	1501-1515 HRS	BK378	MBJ295	SOIL. LOCATED 2.6 FT ~~FROM~~ SOUTH OF SOLVENT SHED + 7 FEET WEST OF BUILDING. SANDY SOIL WITH DARK STATIFICATIONS. 10ppm ON HNU (ENV. DUP).
NY$1-TRBL1	N/A	BK397	N/A	AQUEOUS TRIP BLANK - GROUNDWATER
NY$1-TRBL2	N/A	BK398	N/A	AQUEOUS TRIP BLANK - SOIL
NY$1-GW1	1351-1404 HRS	BK399	MBK468	GROUNDWATER FROM TW-3. LOCATED 75 FT SOUTH AND 50 FT EAST OF THE N/E CORNER OF THE WAREHOUSE. WATER REDDISH BROWN IN COLOR. (MS/MSD).

[signature] 7/15/87

[signature] 7/21/87

33

SAMP#	TIME	ORG TR#	INORG TR#	SAMPLE TYPE/DESCRIP
NY$1-RIN1	N/A	BK394	MBJ 449	RINSATE BLANK - BAILER
NY$1-RIN2	N/A	BK395	MBJ ~~395~~ 450 ~~FH~~	RINSATE BLANK - TROWEL
			ORGANIC LAB:	Nanco Labs Inc. RD6 ROBINSON LANE WAPPINGER FALLS, NY 12590
			INORGANIC LAB	Chemtech Consulting Group 360 W 11 ST NY NY 10014
NY$1-GW2	1216-1241 HRS	BK400	MBK567	GROUNDWATER FROM TW-2. LOCATED ~ 30 FOOT SOUTH OF LOADING DOCK. WATER SILTY. (ENV. DUP.)

CKFound 7/15/87

[illegible] 7/21/87

0.87

7/13/87	1214	EH	S1-1 ~~R1-1~~ EH P1-1	D. DEBRUIJN BAILING WELL ~~DP~~ EH TW-2
7/13/87	1231	EH	S1-2 ~~R1-2~~ EH P1-2	J. MURTAUGH COLLECTING SAMPLE NY$1-GW2 AT TW-2.
7/13/87	1329	EH	S1-3 ~~S2~~ EH ~~R1-3~~ EH P1-3	D. DEBRUIJN BAILING WELL TW-3
7/13/87	1351	EH	S1-4 P1-4 ~~R1-4~~ EH	J. MURTAUGH COLLECTING SAMPLE NY$1-GW1 AT TW-3.
	~~1457~~	~~EH~~	~~S~~ EH	
7/13/87	1457	EH	S1-~~4~~5 ~~R1-4~~ EH P1-5	J. MURTAUGH COLLECTING SAMPLE NY$1-S1.
7/13/87	1510	EH	S1-6 ~~R1-6~~ P1-6 EH	J. MURTAUGH COLLECTING SAMPLE NYS1-S2.
7/13/87	1653	EH	S1-7 ~~R1-7~~ P1-7 EH	D. DEBRUIJN BAILING WELL TW-1
7/13/87	1704	EH	S1-8 ~~S~~ ~~R1-8~~ EH P1-8 EH	D. DEBRUIJN OBTAINING SAMPLE NY$1-GWB, AT TW-1.

EL Leonard 7/15/87

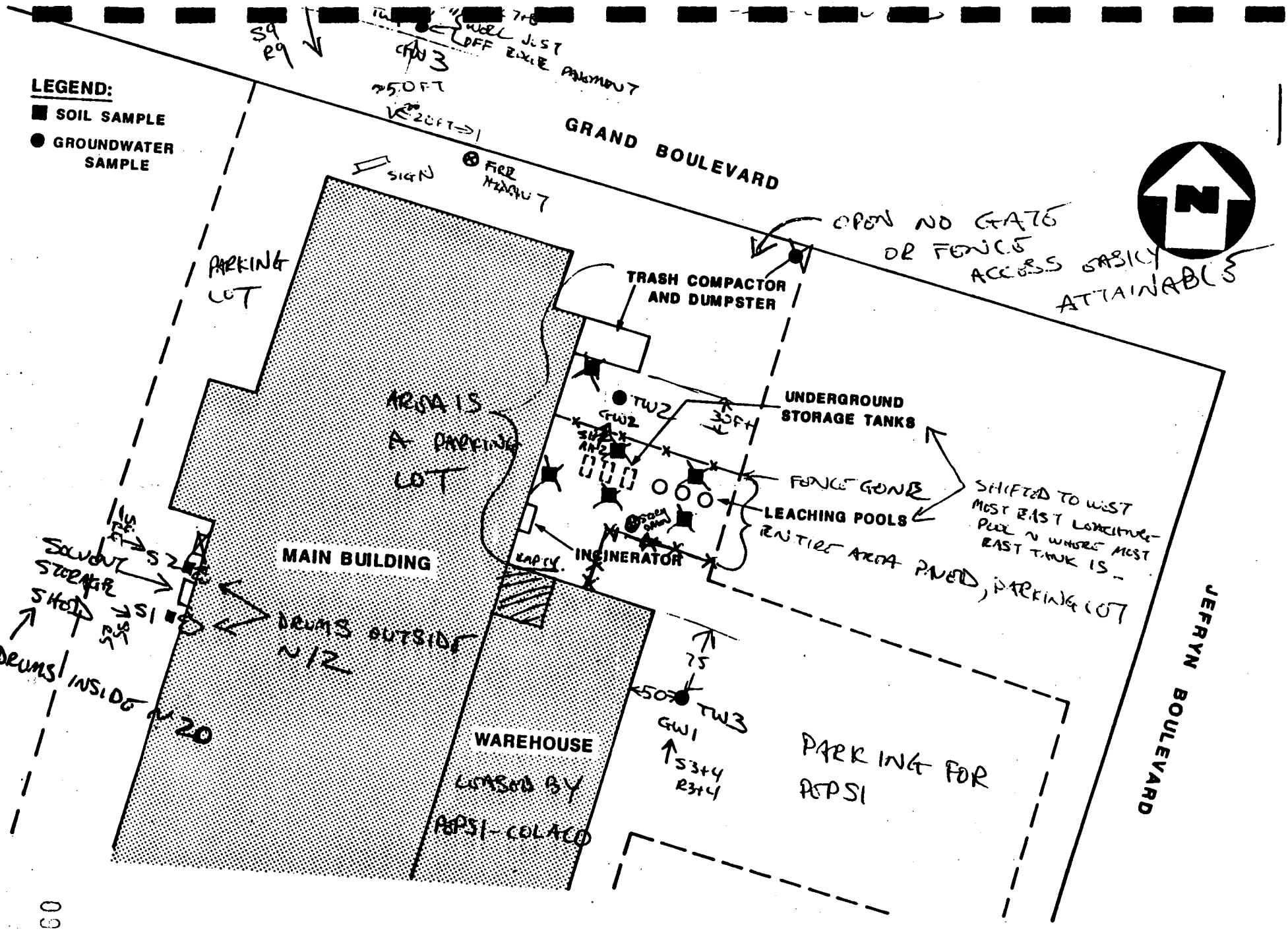
[illegible] 7/21/87

088

11/3/87	1716	RH	S1-9 ~~P1-9~~ P1-9 RH	PHOTO OF COM SIGN

CKLeonard 7/15/87

DDoherty 7/15/87



PRE-SAMPLE LOCATION MAP

COMMERCIAL ENVELOPE MFG. CO. INC., DEER PARK, N.Y.

FIGURE 3

NUS

REFERENCE NO. 6

[illegible] DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
[illegible] Johnson Lane, [illegible], N.Y. 11787
(516) 234-2622 x260

[illegible] Commercial Envelope Mfg Co	OWNER/OFFICER Ira B. Kristel Pres.		
	CONTACT Alan Kristel		TEL. 242-2500
[illegible] 900 Grand Blvd.	VILLAGE Deer Park	TOWN Babylon	
5 JAN 81	TIME 3:50 PM	ORIG. X Complaint PERIODIC ___ RE. ___	WASTE ___ NO WASTE ___ H.&H. ___ ZIP

[illegible] PROCESS:

[illegible]OR PERMIT? ___ YES. ___ NO. PERMIT NO.

360 PERMIT? ___ YES. ___ NO. PERMIT NO.

[illegible]ER [illegible]D. ___ YES. ___ NO. PICK UP RECORDS AVAILABLE. ___ YES. ___ NO. RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION. ___ YES. ___ NO. TEL.

[illegible]APACITY: WASTE MATERIALS.

RAW MATERIALS.

[illegible]SITE: WASTE MATERIALS.

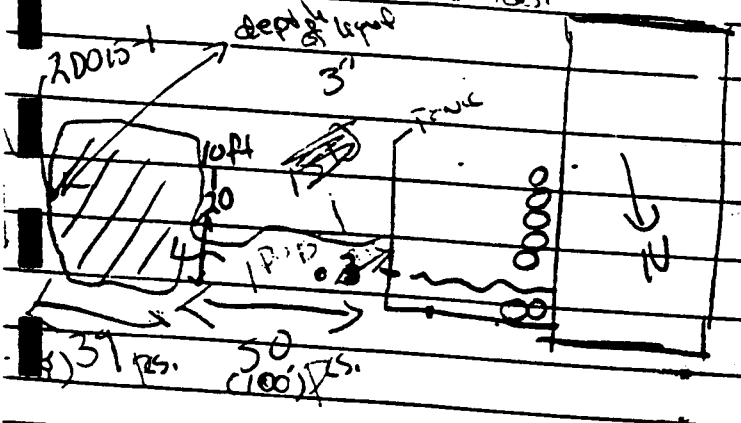
RAW MATERIALS.
Carlson Inh → water based ink
965-6600

FACILITIES: ENCLOSED ___. DIKED ___. CHEMICAL RESISTANT PAD ___. FLOOR DRAINS ___. STRUCTURALLY LEAK TIGHT ___

[illegible]CESS

DISCHARGE | DISCHARGED TO | DISCHARGE POINT

[illegible]ge purple spill to East + NEast of Bld.
Observed 2-3" galvanized pipe thru, wood fence on
[illegible] side of Bld. Numerous 55 gal drums stored
[illegible] side in fenced in lot.



grove in snow from pipe 6 ft long to bld.

Water based ink, normally held in tank,

[illegible] sample 1 D015-1 → Large purple spill to, East of parking lot,
[illegible] NE of pipe, pool approx. 72'x40' –
[illegible] spill is on is not owned by Comm. Envelope.
[illegible] Mr. Kristel.

092

[illegible]

FACILITY OPERATOR:

[illegible] WITHIN ANY MUNICIPALITY THAT VARIABLE BY [illegible] PRODUCTION WITH [illegible], OILS, AND OTHER TOXIC AND [illegible] PROTECTION OF SURFACE AND GROUNDWATERS IN SUFFOLK COUNTY FROM [illegible] POLLUTION IS PROVIDED FOR BY THE NEW [illegible] WITH ITEMS LISTED BELOW ARE VIOLATIONS, IN ONE OR MORE OF THE ABOVE SOURCE OF LAWS, WHICH WERE FOUND ON THIS DATE [illegible] FACILITY. SINCE THESE VIOLATIONS ARE PRONE TO LEGAL ACTION IT IS IMPERATIVE THAT IMMEDIATE CORRECTIVE ACTION BE [illegible] YOUR FACILITY.

VIOL. ITEMS	DATE CORRECTED
1. DISCHARGING INDUSTRIAL WASTE WITHOUT A VALID STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT. (CORRECTIVE ACTION - "A" OR "B") (A) CEASE ALL DISCHARGE. INITIATE A CLOSED LOOP SYSTEM OF OPERATION AT YOUR FACILITY. ANY WASTE GENERATED TO BE HELD AND HAULED BY A LICENSED INDUSTRIAL WASTE SCAVENGER. OBTAIN AN INDUSTRIAL WASTE HOLDING PERMIT. (B) IF YOU WISH TO MAINTAIN AN INDUSTRIAL DISCHARGE: 1. THE DISCHARGE MUST BE TREATED IF NECESSARY TO MEET N.Y. STATE EFFLUENT STANDARDS. 2. APPLY FOR AND OBTAIN A SPDES PERMIT. ALL FOUR COPIES OF PERMIT APPLICATION TO BE FILLED OUT AND SUBMITTED WITHIN 30 DAYS. ALSO INCLUDE A PLOT PLAN SHOWING ALL PLANT DISCHARGES AND POINTS TO WHERE ALL DISCHARGES ARE ROUTED. (CESSPOOLS, STORM DRAINS, ETC.)	
2. STORING OR HOLDING INDUSTRIAL WASTE WITHOUT A VALID INDUSTRIAL WASTE STORAGE PERMIT. (CORRECTIVE ACTION - APPLY FOR AND OBTAIN AN INDUSTRIAL WASTE STORAGE PERMIT.)	
3. RELEASING TOXIC OR HAZARDOUS WASTES TO ANYONE OTHER THAN A LICENSED INDUSTRIAL WASTE SCAVENGER. (CORRECTIVE ACTION - OBTAIN THE SERVICES OF A LICENSED INDUSTRIAL WASTE SCAVENGER AND NOTIFY THIS DEPARTMENT, IN WRITING, WITHIN 14 DAYS OF SCAVENGER SELECTED.	
4. PICKING UP, TRANSPORTING, OR DISPOSING OF TOXIC OR HAZARDOUS WASTE WITHOUT A VALID N.Y. STATE INDUSTRIAL WASTE COLLECTOR REGISTRATION.	
5. SCAVENGER PICK UP RECEIPTS NOT AVAILABLE AT TIME OF INSPECTION. (CORRECTIVE ACTION - SCAVENGER PICK UP RECEIPTS LISTING VOLUME, TYPE OF MATERIAL PICKED UP, AND DATE OF PICK UP MUST BE KEPT ON THE PREMISES AND MADE AVAILABLE TO REPRESENTATIVES OF THIS DEPARTMENT UPON REQUEST.)	
X 6. FAILURE TO REPORT A TOXIC OR HAZARDOUS MATERIAL SPILL WITHIN 2 HOURS OF SPILL DETECTION. (ANY UNAUTHORIZED DISCHARGE, SPILL OR RECOGNIZABLE LOSS OF TOXIC OR HAZARDOUS WASTE SHALL BE REPORTED TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES, AND ANY OTHER REQUIRED AGENCY, WITHIN 2 HOURS OF SPILL DETECTION.)	
7. STORAGE: DRUMS, TANKS, CONTAINERS, USED FOR THE STORAGE OR HANDLING OF TOXIC OR HAZARDOUS WASTE FOUND: (A) NOT STORED IN A WAY THAT WILL PREVENT THE RELEASE OF THE CONTENTS OF THE CONTAINERS TO THE GROUND OR SURFACE WATERS. (B) NOT STORED INDOORS. (NOTE- IF INDOOR STORAGE IS PROHIBITED BY PERTINENT FIRE REGULATIONS THEN SUCH PROHIBITION SHOULD BE SUBMITTED TO THIS DEPARTMENT, IN WRITING, SIGNED BY THE LOCAL FIRE COMMISSIONER.) (C) NOT STORED ON AN IMPERVIOUS, CHEMICAL RESISTANT SURFACE COMPATIBLE WITH THE MATERIAL BEING STORED. (D) STORAGE AREA NOT COMPLETELY ENCLOSED WITH A PERMANENT DIKE OF IMPERMEABLE CONSTRUCTION, AND CAPABLE OF PROVIDING A SPILL CONTAINMENT CAPACITY OF 110% OF THE VOLUME OF STORED MATERIAL. (E) NOT STORED PROTECTED FROM VANDALISM, UNAUTHORIZED ACCESS AND / OR RUSTING, FREEZING, AND OTHER WEATHER RELATED DAMAGE.	

For Industrial Waste Scavengers Lisd.
call Tony D. Costanza. 751-7900

(1) Clean up spill, using licensed industrial waste scavenger.

(2) Will return on Aug 16 Jan 81 to make full inspection at plant. 930AM

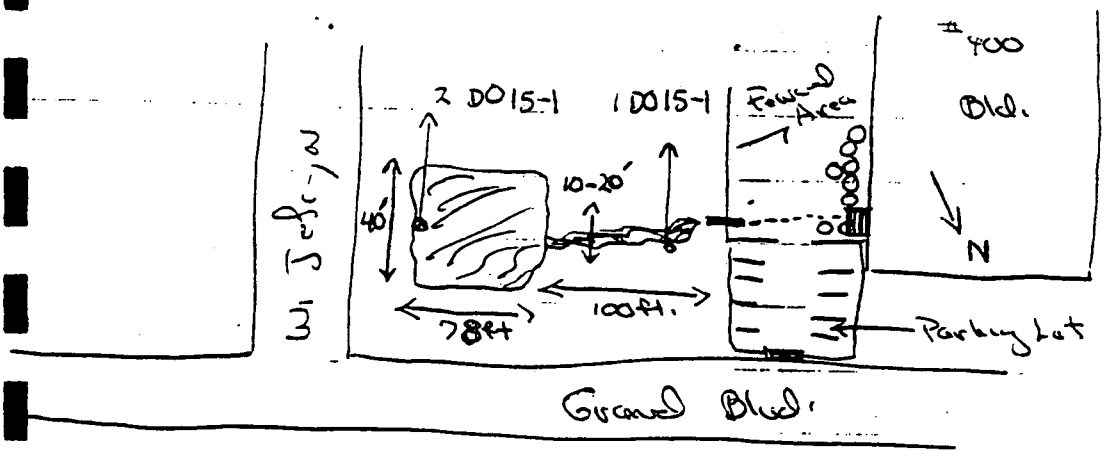
[illegible] NTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF [illegible] AINS, AND OTHER DISCHARGE POINTS AT THE FACILITY ? _____ YES. _____ NO.

[illegible] ON OR AFTER _____ [illegible] FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE

[illegible] AND / OR FINE _____ [illegible]

DAVID O'BRIEN

093



① Light to dark purple color liquid.

A) Sample 1 DO 15-1, dug thru ice and dirt to form depression to take sample. Liquid almost black/very dark purple. Liquid granular.

B) Sample 2 DO 15-1, light pink, liquid, depth 3".

② Pipe stuck thru fence at ground level, deep cut in bank from flow, 8-12". Pipe new galvanized, fence appear new also.

i) Trench in snow from pipe to building, appears roundish, possible hose connected to pipe for discharge purposes.

③ Numerous 55 gal. drums, gray-green stripped in fenced area from 15-30 approx.

④ Est. gallons 40'x78'x.25' = 5835 gal. or 40'x78'x1" = 1937 gal.

Dr Oberg

094

(6) 16 JAN. 1980 → Took 6 pics. approx. 9.28-39 AM

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS

Jan. 25, 85

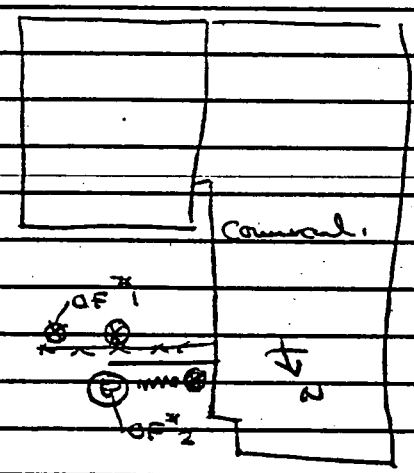
Commercial Envelope Mfg. Corp.
Grand Blvd. Deer Park NY.

① loading dock over flow pumped down to sludge

② Overflow pool from ink ~~wash~~ pot wash machine pumped down to sludge.

Total of 2200 gall removed from both pools by CR.

③ Sludge in ink pot wash discharge pool system was examined no obvious contamination. Sludge very thin not colored. Pool will be filled in with sand.



④ Loading dock storm drain over flow pool cement cap has been removed + pool widened + exposed. There are two 4-6" ~~[illegible]~~ white piped eastern pool, side by side from the direction (West) of the visible loading dock storm drain.
There is sludge at the bottom of the pool which will be removed.
The are no other apparent overflow pipes from the excavated overflow pool. The pool is a typical leaching pool, approx. 20-25 ft. deep.

⑤ The garbage in the compactor still contains ink soaked rags + some empty ink cans, discolored water (black) is standing in the loading dock.

David O'y.

15 234 2/82

...K COUNTY DEPARTMENT OF HEALTH SERVICES
...RIAL WASTE AND HAZARDOUS MATERIALS CONTRO...
...5 Jetson Lane, P. O. Box G, Central Islip, ...y. 11722
(516) 234-2622 x260

...TY Commercial Envelope Mfg. Co.
...NY
OWNER/OFFICER Mr. Kristel Pres.
CONTACT Mr. Kristel
TEL.
...S
VILLAGE Deer Park TOWN Bab.
...NG
...SS Grand Blvd.
ZIP
...7 Feb 81 TIME 11:00 ORIG. ___ PERIODIC ___ RE. X WASTE ___ NO WASTE ___ H.&H. X
...RIAL PROCESS: Manu. Envelopes
...R
...ERMIT? ___YES. ___NO. PERMIT NO.
360 PERMIT? ___YES. ___NO. PERMIT NO.
...NGER
...ER
...D. ___YES. ___NO. PICK UP RECORDS AVAILABLE. ___YES. ___NO. RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION. ___YES. ___NO.
TEL.
...GE CAPACITY: WASTE MATERIALS.
RAW MATERIALS.
...E ON SITE: WASTE MATERIALS.
RAW MATERIALS.

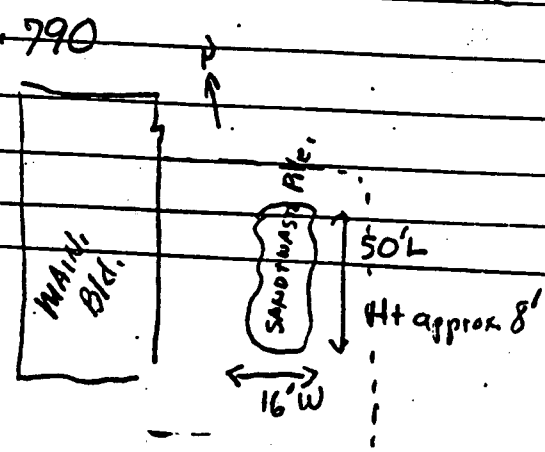
...FACILITIES: ENCLOSED ___. DIKED ___. CHEMICAL RESISTANT PAD ___. FLOOR DRAINS ___. STRUCTURALLY LEAK TIGHT ___

...CESS

	DISCHARGE	DISCHARGED TO	DISCHARGE POINT
Clean up done by [redacted] Art Weiner - Earth Moving.			
[redacted] says went down approx 3' ft., and removed dirt.			
Mr. Kristel			

Notified Mr. Kristel that the removed dirt is considered a hazardous material and that it will be Embargoed. Tag No. 790

...stored on East side of outside, on black top surface, ...bserved storm drains.
...erved some run off evidence ...recent rain, however water ...ently evaporated.



097

OVER FOR LIST OF VIOLATIONS

THE FACILITY OPERATOR:

GROUNDWATER IS SUFFOLK COUNTY'S SOLE SUPPLY SOURCE FOR DRINKING WATER. INDUSTRIAL WASTES DISCHARGED ON TO THE GROUND OR IN CESSPOOLS OR STORM DRAINS MAY RENDER THIS VALUABLE RESOURCE UNFIT FOR HUMAN CONSUMPTION WITH SOLVENTS, OILS, AND OTHER TOXIC AND HAZARDOUS MATERIALS. PROTECTION OF SURFACE AND GROUNDWATERS IN SUFFOLK COUNTY FROM INDUSTRIAL POLLUTION IS PROVIDED FOR BY THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW, THE SUFFOLK COUNTY SANITARY CODE, AND THE NEW YORK STATE NAVIGATION LAW.

PLEASE NOTE, THE ITEMS CHECKED BELOW ARE VIOLATIONS, OF ONE OR MORE OF THE ABOVE CODES OR LAWS, WHICH WERE FOUND ON THIS DATE TO EXIST AT YOUR FACILITY. SINCE THESE VIOLATIONS MAY RESULT IN LEGAL ACTION IT IS IMPERATIVE THAT IMMEDIATE CORRECTIVE ACTION BE INITIATED BY YOUR FACILITY.

VIO.	ITEM	DATE CORRECTED
MITS	1. DISCHARGING INDUSTRIAL WASTE WITHOUT A VALID STATE POLLUTANT DISCHARGE ELLIMINATION SYSTEM (SPDES) PERMIT. (CORRECTIVE ACTION - "A" OR "B") (A) CEASE ALL DISCHARGE. INITIATE A CLOSED LOOP SYSTEM OF OPERATION AT YOUR FACILITY. ANY WASTE GENERATED TO BE HELD AND HAULED BY A LICENSED INDUSTRIAL WASTE SCAVENGER. OBTAIN AN INDUSTRIAL WASTE HOLDING PERMIT. (B) IF YOU WISH TO MAINTAIN AN INDUSTRIAL DISCHARGE: 1. THE DISCHARGE MUST BE TREATED IF NECESSARY TO MEET N.Y. STATE EFFLUENT STANDARDS. 2. APPLY FOR AND OBTAIN A SPDES PERMIT. ALL FOUR COPIES OF PERMIT APPLICATION TO BE FILLED OUT AND SUBMITTED WITHIN 30 DAYS. ALSO INCLUDE A PLOT PLAN SHOWING ALL PLANT DISCHARGES AND POINTS TO WHERE ALL DISCHARGES ARE ROUTED, (CESSPOOLS, STORM DRAINS, ETC.)	
	2. STORING OR HOLDING INDUSTRIAL WASTE WITHOUT A VALID INDUSTRIAL WASTE STORAGE PERMIT. (CORRECTIVE ACTION - APPLY FOR AND OBTAIN AN INDUSTRIAL WASTE STORAGE PERMIT.)	
ASTE POSAL	3. RELEASING TOXIC OR HAZARDOUS WASTES TO ANYONE OTHER THAN A LICENSED INDUSTRIAL WASTE SCAVENGER. (CORRECTIVE ACTION - OBTAIN THE SERVICES OF A LICENSED INDUSTRIAL WASTE SCAVENGER AND NOTIFY THIS DEPARTMENT, IN WRITING, WITHIN 14 DAYS OF SCAVENGER SELECTED.	
	4. PICKING UP, TRANSPORTING, OR DISPOSING OF TOXIC OR HAZARDOUS WASTE WITHOUT A VALID N.Y. STATE INDUSTRIAL WASTE COLLECTOR REGISTRATION.	
	5. SCAVENGER PICK UP RECEIPTS NOT AVAILABLE AT TIME OF INSPECTION. (CORRECTIVE ACTION - SCAVENGER PICK UP RECEIPTS LISTING VOLUME, TYPE OF MATERIAL PICKED UP, AND DATE OF PICK UP MUST BE KEPT ON THE PREMISES AND MADE AVAILABLE TO REPRESENTATIVES OF THIS DEPARTMENT UPON REQUEST.)	
LS	6. FAILURE TO REPORT A TOXIC OR HAZARDOUS MATERIAL SPILL WITHIN 2 HOURS OF SPILL DETECTION. (ANY UNAUTHORIZED DISCHARGE, SPILL OR RECOGNIZABLE LOSS OF TOXIC OR HAZARDOUS WASTE SHALL BE REPORTED TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES, AND ANY OTHER REQUIRED AGENCY, WITHIN 2 HOURS OF SPILL DETECTION.)	
RDOUS RIALS E	7. STORAGE: DRUMS, TANKS, CONTAINERS, USED FOR THE STORAGE OR HANDLING OF TOXIC OR HAZARDOUS WASTE FOUND: (A) NOT STORED IN A WAY THAT WILL PREVENT THE RELEASE OF THE CONTENTS OF THE CONTAINERS TO THE GROUND OR SURFACE WATERS. (B) NOT STORED INDOORS. (NOTE- IF INDOOR STORAGE IS PROHIBITED BY PERTINENT FIRE REGULATIONS THEN SUCH PROHIBITION SHOULD BE SUBMITTED TO THIS DEPARTMENT, IN WRITING, SIGNED BY THE LOCAL FIRE COMMISSIONER.) (C) NOT STORED ON AN IMPERVIOUS, CHEMICAL RESISTANT SURFACE COMPATIBLE WITH THE MATERIAL BEING STORED. (D) STORAGE AREA NOT COMPLETELY ENCLOSED WITH A PERMANENT DIKE OF IMPERMEABLE CONSTRUCTION, AND CAPABLE OF PROVIDING A SPILL CONTAINMENT CAPACITY OF 110% OF THE VOLUME OF STORED MATERIAL. (E) NOT STORED PROTECTED FROM VANDALISM, UNAUTHORIZED ACCESS AND / OR RUSTING, FREEZING, AND OTHER WEATHER RELATED DAMAGE.	

Consultant. Dr. Palevsky -516- 795-3408

Al Santino call consultant.

Comm. Envelope. wants to use sand in cement mix in construction of new bldg on premises, at Grand Blvd Deer Park.

THIS COMMODITY NOT TO BE REMOVED OR USED UNTIL AUTHORIZED BY THE SUFFOLK COUNTY DEPT OF HEALTH SERVICES.

CALL JACK EINRENBERG

DAVID OBRIG 516. 234-2622

PERMISSION GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF CESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY ? _____ YES. _____ NO.

INSPECTION SCHEDULED ON OR AFTER _____ FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE _____ WILL RESULT IN A HEARING AND / OR FINE.

NAME OF PERSON SIGNING REPORT [signature] TITLE 2/27/81 INSPECTOR [signature] DAVID OBRIG

098

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

ME OF ACILITY		OWNER/ OFFICER	PAGE ___ OF ___
MPANY ME	Commercial Envelope Mfg Corp.	CONTACT Mr Ken Mitchkeo - Tom P. C.	
LANT DDRESS	900 Grand Blvd.	VILLAGE Deer Park TOWN Bab. N.Y.	ZIP
LING DRESS			

E Jan. 14, 85	TIME 9:30 AM	ORIG. PERIODIC (RE.)	WASTE NO WASTE H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

- Pumping + washing storm drain in loading dock. Pool abrox. 20ft. deep.

2- CPC removed initial liquid/~~sludge~~ sludge from loading ck storm drain, on Thursday, Jan. 10, 1985. CPC removed 3400 gal. ie. manifest NY#12425-3.

- Excavation over weekend found over flow (2nd pool) to the East of loading dock storm drain. The cover as been partially broken open, observations + sampling revealed a pool approx. 20ft deep with approx. 2-3ft. of urple colored liquid, there is also a undetermined amount blue/black sludge. A sample of the liquid was procured for H2M to test for lead.

A third pipe which was in the storm drain was ~~traced~~ traced to the pipe observed in the trench, + crossing the trench at a ~~45°~~ ~~angle~~ ∠45°. I blew water up the pipe using CPS pressure washer the water came out the pipe as it crossed the trench. The pipe crossed the trench approx. 12-14" higher than the two other excavated pipes. Running a wire up the pipe on the south side of the trench revealed that the material inside the pipe was not the same as the sludge in the other two lower pipes. In discussions with Mr. Ire of H2M it was decided not to excavate + trace this 3rd pipe.

Commercial Sludge

099

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

File

ME OF CILITY / MPANY / ME	Commercial Envelope Mfg. Corp.	OWNER/ OFFICER Mr. Ira Krastel	Pres. PAGE ___ OF ___
NT / DRESS		CONTACT	TEL.
LING DRESS 900 Grand Blvd.	VILLAGE Deer Park	TOWN Babylon	ZIP
E July 9, 85 TIME 6 00 AM	ORIG. PERIODIC (RE.)	(WASTE) NO WASTE H&H	SEWAGE SYSTEM (PUBLIC) (PRIVATE)

Search Warrant Investigation

Personel of the DA's Special Investigation - Environmental Crimes Unit, ie. Investigator Stephen Prielack, + Investigator John Flynn, presented a Warrant for a search at Commercial Envelope Mfg Corp., located at 900 Grand Blvd. Deer Park, NY. The search was to located and dye test particular pipes from the inside of Commercial Envelope, that emanated from the "photo rooms", area and a "ink pot" wash machine. These pipes led under the floor or ground outside Commercial to the East and had discharged into a series of two leaching pools. The search also was to conduct sampling of any "sludge" inside these pipes, and liquid from the "ink pot" wash machine, a small collection sump inside the photo rooms, and a "wet" area beneath a loading dock compactor. The Environmental Crimes Unit was assisted by an additional four investigators, they were to lend a hand excavating the pipes and pools. The additional investigators also shot 35mm prints of the search, and video taped the sampling.

The identification of particular points to be excavated or sampled was facilitated by personel from the Inspectional Services Section, of the Bureau of Environmental Health ie. Ms. JoAnn Johnson + Mr David Obry. All samples were to be taken by Thus identification was made possible by the more than thirty inspection/sampling conducted by Ms Johnson + Mr Obry at Commercial Envelope prior to the raid, forwarded to the DA.

18-234: 9/84

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS

(2)

July 9, 85

The ~~samp~~ Health Dept. sampling team was Mr. Eric Youngblood, Mr. David Obry ~~[illegible]~~, assisted by Ms Johnson. Full protective gear was utalized ie. white hooded protective coveralls, boots, double gloves, SCBA, + ~~[illegible]~~ two way communicating + LEL/O_2 meters, + lifeline.

The search for the pipes to dye test involved excavation and exposure of ~~two lines~~ two systems discharging into one leaching pool. The line from the "photo rooms" was intercepted as it exited from a cement filled sanitary vent, ~~[illegible]~~ which is opposite the "photo rooms" on the East outside wall of Commercial. A shallow trench was excavated approx. 3 ft. wide, 3 ft deep + 4-5 ft. long, this exposed the gray/white composite pipe. Members of the Suffolk County Police-Emergency Services Unit, drilled and chiseled a hole ~~[illegible]~~ big enough to obtain a sludge sample + to dye test the line.

The pipe from the "inkpot" wash machine, had been previously, exposed, cut + plugged inside the printing area. This portion of the pipe was re excavated, ~~[illegible]~~ the site was a 4 ft wide x 4 ft long by 4-5 ft deep square hole.

These two pipes ~~[illegible]~~ had previously discharged into ~~[illegible]~~ two leaching pools in line, both pools had been ordered pumped + filled in by the SCDHS. The first pool in line with some help from the Babylon Town Highway Dept., was broken open with a jack hammer, and the clean fill previously applied was removed. The leaching pool was excavated down to the 2 discharge pipes, at a dept of approx. 6-7 ft. below grade.

At that time samples were obtained from the "ink pot" wash machine. On both sides of the plugged line from the "ink pot" machine, and an attempt was made to obtain sludge from the end of the pipe, however none was obtained. From the "photo rooms" area a liquid sample was obtain from a small collection sump along the East wall.

18.234: 2/82

The drilled open "photo room" line was sampled for sludge.

The "photo" discharge point in the leaching pool was investigated however there was not sludge to obtain a sample.

A large accumulation of purple liquid inside the loading dock, below the trash compactor, was sampled.

Red dye and approx. 40 gal. of water was inserted into the "dark rm". pipe outside the east side of the Bld. Within approx. 1 min. the red dye appeared inside the leaching pool from a pipe on the NW edge. Green dye and a garden hose on "full" was inserted into a pipe at the "ink pot" wash machine, this green ~~water~~ liquid soon appeared at the hole where the pipe was cut and plugged. The liquid soon flowed into the East section of the cut pipe, additional green dye + water via the garden hose was applied to the section, the green dye did not appear at the leaching pool.

An excavation was started approx. 6 ft. West of the leaching pool, hoping to intercept the pipe into the pool. A ~~hole~~ hole approx. 4 ft. deep was excavated, ~~a~~ where ~~open hole~~ we discovered a open pit, with liquid inside, the liquid was ~~an~~ colored - "green" very similar to the dye, a pipe across the opening was observed discharging a small stream into the pit. A 2x4 board was inserted into the pit to a depth of 6-8 below grade, it did not touch bottom. There were explosive gases measured in the pit, a liquid sample ~~was~~ was obtained from the liquid inside the pit, after the gases dispersed.

The samples were preserved ~~by~~ in ice, + transported to the ME's lab + the SCDHS lab in Central Islip.

The entire search was from approx 6 AM to 4 PM in the afternoon.

David Obry RHS.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

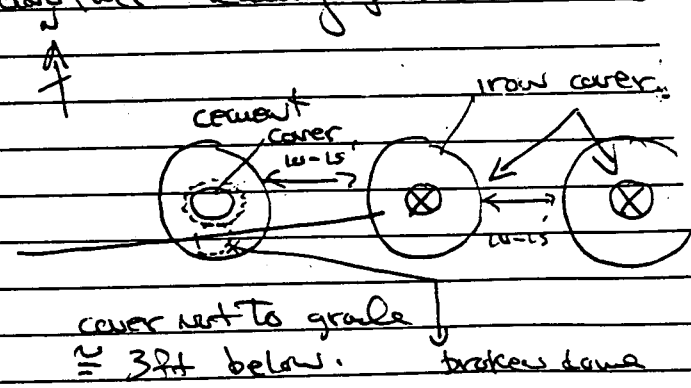
NAME OF FACILITY	OWNER/ OFFICER	PAGE 1 OF 4
COMPANY NAME Commercial Envelope Mfg. Corp	CONTACT	TEL.
PLANT ADDRESS 900 Grand Blvd. VILLAGE Deer Park TOWN Bab. N.Y.		ZIP
MAILING ADDRESS		
DATE Feb 27, 86 TIME 8:00 AM ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

① 8 AM - on site; Chemical Pollution Control, CPC, arrived with pump truck + drum truck.

② Excavated "new" pool approx. 10-15 ft. West of previously abandoned leaching pools. Uncovered dome + cement cover, pool approx 10-12 ft. wide, approx. 12-15 ft deep with unknown depth of sludge.

③ Assisted Engineering firm in removing liquid sampled from pool, liquid appeared gray in color. (Eder Asso. Consulting Eng. - Mr. Gregory Rorech)

④ A hole had been broken thru the South slope of the dome, this is where liquid (industrial waste) has entered the pool thru a pipe, (PVC ≅ 4-5" diam.) which then entered another leaching pool immediate the east.



⑤ NOTE: The soil has been excavated off the top of the three abandoned ink waste tanks. (hole approx. 12-15 wide x 5 ft deep x 40 ft long. The is evidence of cement having been poured around or into the tanks. The center tank has a 2" hole in it where liquid can be seen.

Along the side, West wall of the excavation there is evidence of ink waste ie. blue/black deposits of hard sludge like material.

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	OWNER/ OFFICER	PAGE 2 OF 4
COMPANY NAME Commercial Envelope Mfg Corp.	CONTACT	TEL.
PLANT ADDRESS 900 Grand Blvd. / VILLAGE Deer Park TOWN Bab. N.Y.		ZIP
MAILING ADDRESS		

DATE Feb 27, 86	TIME AM/PM	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

I dug along a strata of this material for approx 6ft in length + found a 12 ft. deep band of blue/black sludge + moist gray material. (will remove sample)

(6) NOTE: There has been some work done around the industrial waste incinerator, there is a quantity of gray/blue stained "clinker" like material below the firing chamber. (will take sample)

There is also a by-pass valve below the firing chamber with a garden hose like thread attachment.

There is fresh evidence of ink spillage along the South side of the garage doors. (observed wet blue black substance along garage folding door edge. There is a hole in the outside wall approx. 6-8 ft. South of the incinerator, approx. 1 ft. below a near by roof drain pipe, there is evidence of black run off from this hole.

(7) Removed study sample 1D02/27 (m) from approx. middle of ink waste sediment approx. 2-3 ft. below grade, in the West corner of the excavation around

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE 3 OF 4
COMPANY NAME Commercial Envelope Mfg Corp.		CONTACT	TEL.
PLANT ADDRESS Grand Blvd.	VILLAGE Deer Park	TOWN Bab. N.Y.	ZIP
MAILING ADDRESS			

DATE Feb. 27 86	TIME AM/PM	ORIG. PERIODIC RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

Removed 2 DO 2/27 (m) from middle of "clinker" sediment below the firing chamber of the industrial waste incinerator.

Removed 3 DO 2/27 (m) from blue/black sludge removed by bucket from the South edge of the industrial waste leaching pool. This "sludge" appeared not to be similar to material from a typical sanitary leaching pool. There was no sewage odor or any material that would be associated with a sanitary pool. The sludge was thick, slurry black with particules of red, dark blue + light blue throughout. From previous experience at Commercial Envelope + other printers it would appear to be concentrated ink waste.

(8) The excavation of/over the underground ink tanks has been mentioned before in this report. During my inspection/observation of the pump out the excavation was discussed a number of times, with the consulting engineer Mr. Roreck + Mr. Roy Brannigan of Commercial Envelope, both knew nothing about the excavation or why it had occurred. During the late afternoon Mr. Krystal visited the site three times, those questions about the excavation were obviously asked of him by the Engineer Mr. Roreck, because Mr. Roreck said that the excavation was to "show" me (or SCDHS) that the tanks had been abandoned properly. (this is a stipulation within the latest Consent Order between Commercial Envelope + SCDHS)

The appearance of the tanks is thus, there were three very distinct mounds of gray material equi distant within the trench. The gray material (cement) appeared fresh + moist; in between the middle mound + the West tank there was a gray moist mud like material that appeared very similar to freshly poured cement. (I skipped a number of times as this very moist material)

18-234: 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE 4 OF 4
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT	TEL.
PLANT ADDRESS	Grand Blvd	VILLAGE Deer Park TOWN Babylon	ZIP
MAILING ADDRESS			

DATE Feb. 27, 86	TIME 4pm/2pm	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

To test this story I applied a pick axe to the mound of gray material located over the West + East most tanks. The material broke apart very easily, + it was possible to shovel the ~~[illegible]~~ stuff away from the square manway collars. I dug down approx. 6-8" in each manway, both West + East tanks. Almost immediately pink/red liquid forced itself into the excavations. We removed 1 RS 2/27 (O), + 4 DO 2/27 (M) from the West most tank, + 5 DO 2/27 (M) from the East most tank.

It was possible to force a 8ft x 1" piece of pipe down into the Western most tank and shift it in different directions across the area of the tank. It would appear that this tank is not filled very solidly.

I was unable to force the pipe down into the Eastern most tank, however I did not attempt to enlarge the excavation which was shallower of the two.

The center tank was not touched, ~~[illegible]~~ however there was a hole via a pipe fitting very close to the gray mounded material which I passed the same long pipe into, it passed thru approx. 5-6 ft. of gray liquid.

During ~~[illegible]~~ my excavation Mr. Krystal appeared again, I questioned him as to the age of the ~~[illegible]~~ structure + he stated that no "new" material had been applied + that the tanks had been as is ~~[illegible]~~ for three to four years.

My observations indicate to me that the manways have recently been exposed + fresh cement applied, solely to convince the Dept. that the tank need no further work. Physical observations ie. pink/red liquid + soundings by pipe indicate to me that the tanks are not properly abandoned, they still contain liquid industrial waste.

DAVID O'BRIEN PAS

[illegible]

Tony Brannyer

SU[illegible]K COUNTY DEPARTMENT OF HEALTH SER[illegible]
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CO[illegible]
15 HORSEBLOCK PLACE FARMINGVILLE N.Y. 11738
(516) [illegible]

5

NAME OF FACILITY: Commercial Envelope Mfg Co Inc
OWNER/OFFICER: Ira Cr[illegible]
COMPANY NAME:
CONTACT: Paul Cr[illegible]
PLANT ADDRESS: 900 Grand Blvd
VILLAGE: Deer Park
TOWN: Brighton
ZIP: 11729
MAILING ADDRESS:

DATE: 24 Aug 84 | TIME: 1:00 pm | ORIG. PERIODIC (RE-W) | NO WASTE | H&H | SEWAGE SYSTEM | PUBLIC PRIVATE

① Violation Article 12 Section 1207 Permit to operate 10,000 gallon in ground gasoline tank (unleaded) on the west side of the building is not registered with the county.

② Violation Article 12 Section 1215
Drum storage area on the west side of has not been registered with the county. Drums are not stored in a proper manner so as to permit proper inspection by county.

③ Any "sludge" removed from the incinerator unit on the east side of the building must be drumed & hauled by a NY State lic. Scavenger, not placed on the ground area.

④ Facility has not as of this date submitted an engineering report as per consent order.

⑤ Violation Article 10 Section 1006
The following units are operating in violation of article 10 section 1006; operating without certificate to operate.
① Washing machine
② Cyclone
③ Baler

⑥ Violation Article 12 Section 1207
2000 gallon waste holding tank (above ground) on the east side of the building is not registered with the county.

⑦ Violation Article 12 Section 1215 Drum storage on west side of building of ≅ 50-60 x 55 gal drums Roberts & Carlson Inks.

⑧ Violation Article 12 Section 1215 Tractor trailer filled with ≅ 75-100 x 55 gallon drums, unable to determine entire contents. (Some labeled "61-CR" Cellulose Nitrate Solution "Inks")

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-[illegible]

NAME OF FACILITY: Commercial Envelope Mfg Co. Inc	OWNER/OFFICER: Ira Crystal		PAGE 1 OF
COMPANY NAME:	CONTACT:		TEL: 242-2580
PLANT ADDRESS: 900 Grand Blvd	VILLAGE: Deer Park	TOWN: Babylon	ZIP: 11729
MAILING ADDRESS:			

DATE: 24 Aug 84	TIME: 1:00 pm	ORIG. PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM: PUBLIC PRIVATE

(9) ≅ 4000 gal + ≅ 2000 gal holding tanks for "glue" on the west side of building (above ground) not registered with the county, & not in compliance with Article 12. (1215, 1200)

(10) Sinks (2x) in Dark Room Area are not discharging to the 2000 gallon waste tank on the east side of the building. Dye test (using green dye) [illegible] 1 bottle of powdered dye used, did not appear in tank, observed for ≅ 2 hrs.

(11) Overflowing "pool" on the east side of the building material is cloudy white in color & draining to a storm drainage (odor is foul) presently will be called a violation of Article 2 Section VB, discharge of deleterious materials.

(12) Joanne Johnson

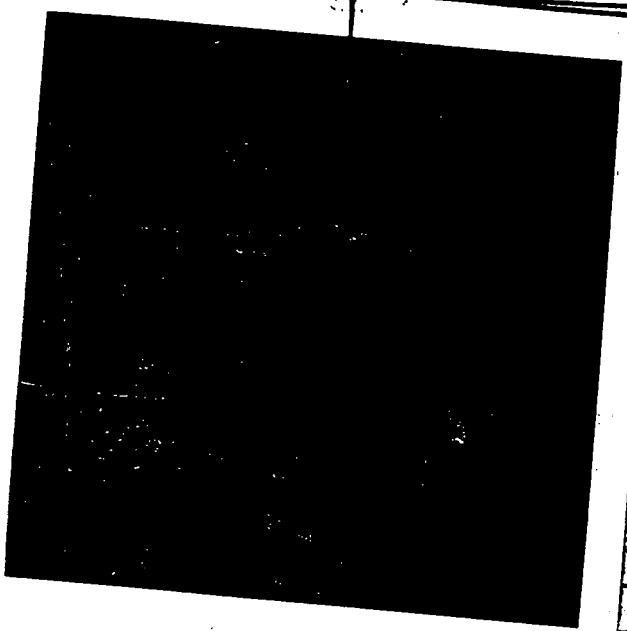
[illegible signature]

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

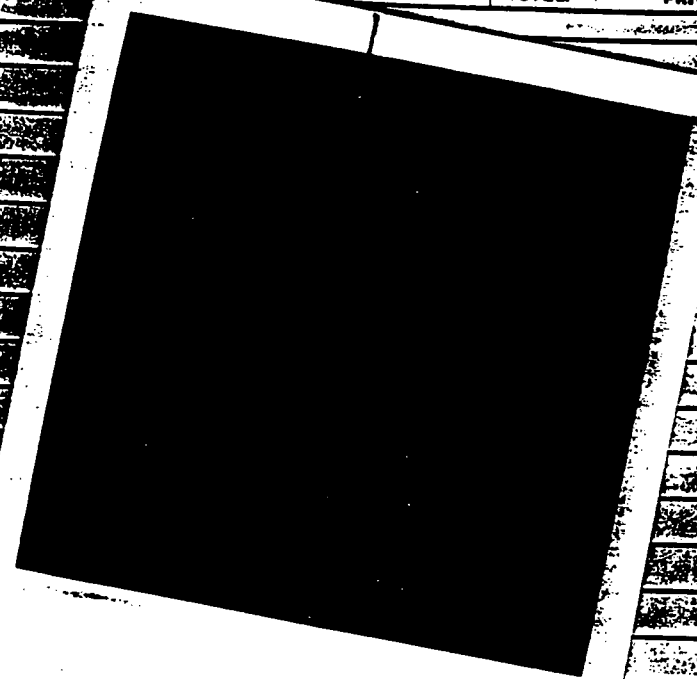
PAGE ONE

NAME OF FACILITY: Commercial Envelope Mfg. Co. Inc	OWNER/OFFICER: IRA CRYSTAL		PAGE 1 OF
COMPANY NAME	CONTACT: LEROY BRANNIGAN		TEL. 242-2500
PLANT ADDRESS: 900 GRAND BLVD	VILLAGE: DEER PARK	TOWN: BABYLON	ZIP 11729
MAILING ADDRESS			

29 AUGUST 84	TIME: 11:45 AM	ORIG. PERIODIC (RE.)	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE



1JJ829



2JJ

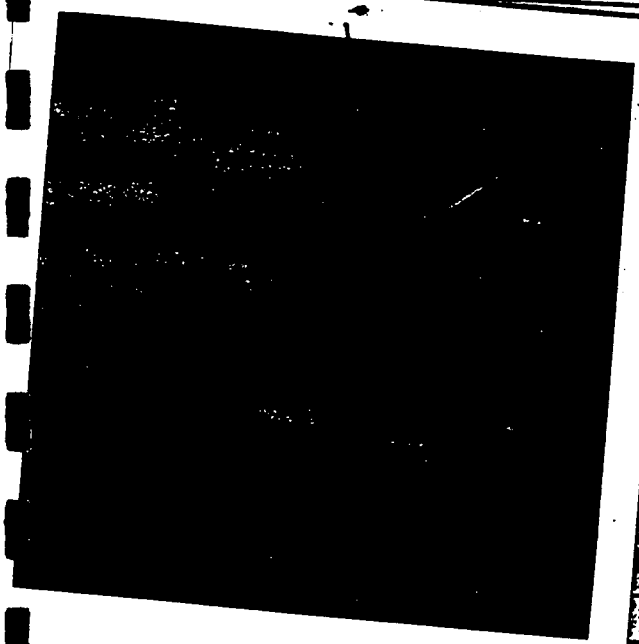
1JJ829 - this photo identifies 2 cement chimneys leading to in-ground industrial waste holding tanks which do not appear to have been abandoned properly in accordance with Article 12. I make this statement because (a) a sample was procured from the most westerly chimney obviously containing a liquid substance (b) Sand or other substrate should be to grade (completely filled) which it (they) obviously are not or removed.

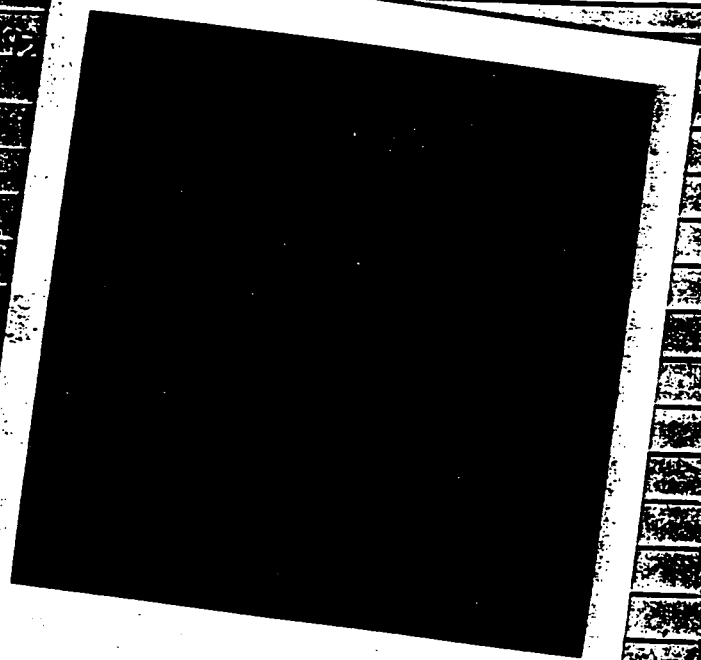
2JJ829 - this photo identifies a large area of overflow discharging to a storm drain. Overflow is emanating from an area identified to me by Mr. Leroy Brannigan as an industrial waste holding tank that was suppose to be abandoned by the facility some time ago.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

PAGE TWO

NAME OF FACILITY / COMPANY NAME: Commercial Envelope Mfg Co Inc	OWNER/OFFICERS: IRA CRYSTAL		PAGE 1 OF
PLANT ADDRESS: 900 Grand Blvd	CONTACT: LEROY BRANNIGAN		TEL. 242-2500
MAILING ADDRESS:	VILLAGE: DEER PARK	TOWN: BABYLON	ZIP: 11729
DATE: 29 AUG 84	TIME: 11:45 AM ORIG. PERIODIC RE.	WASTE: NO WASTE H&H	SEWAGE SYSTEM: PUBLIC PRIVATE





3JJ829 - this photo further identifies area of overflow. In addition to the material flowing into the storm drain (PHOTO 2JJ829), the material is also draining into 2 solid covered pools.

1JJ829 - this photo identifies the cloudy white color of the overflowing material, source of generation, and spread of plume. Overflow material was witnessed bubbling out of "pool" by myself, Mr Orie & Mr Brannigan. This material also had a distinctive odor that I associate with "glue" waste based on inspections of other firms using this type of material. Mr Brannigan also stated that the material was glue waste from machinery in use within the building.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

PAGE THREE

NAME OF FACILITY: Commercial Envelope Mfg Co Inc		OWNER OFFICER: IRA CRYSTAL	PAGE 1 OF
COMPANY NAME		CONTACT: LEROY BRANNIGAN	TEL: 2-42-2500
PLANT ADDRESS: 900 Grand Blvd	VILLAGE: Deer Park	TOWN: Babylon	ZIP: 11729
MAILING ADDRESS			

	TIME	ORIG.	PERIODIC	RE.	WA	NO	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

[redacted]

[redacted]

5JJ829

6JJ829

5JJ829 - 6JJ829

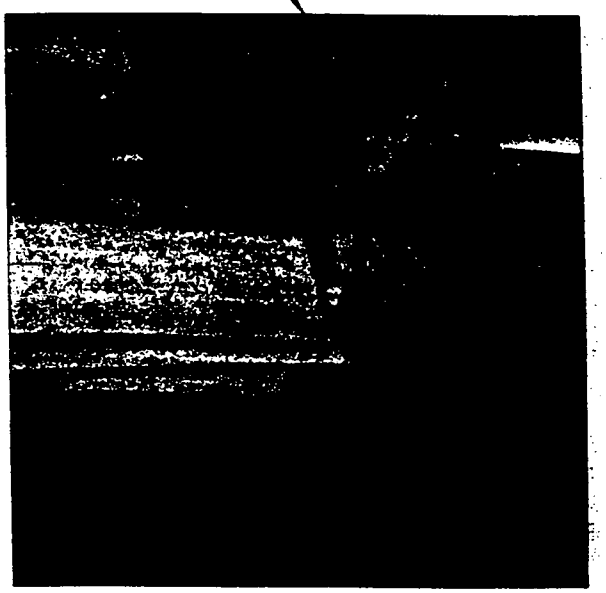
Side View & Close up frontal view of overflowing "pool" (active)

Note bubbles in 6JJ829

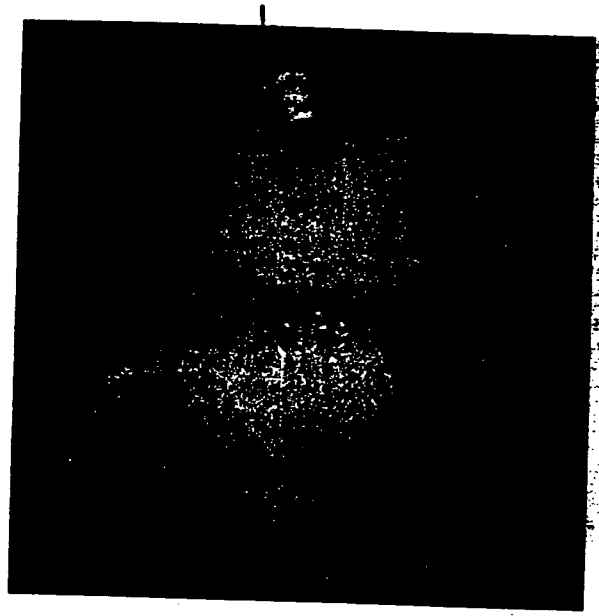
PAGE FOUR

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	Commercial Envelope Mfg Co Inc	OWNER/OFFICER	IRA CRYSTAL
COMPANY NAME			PAGE 1 OF
PLANT ADDRESS	900 GRAND BLVD	CONTACT	LEROY BRANNIGAN
			TEL 242-2500
MAILING ADDRESS		VILLAGE DEER PARK	TOWN BABYLON
			ZIP 11729
DATE 29 AUG 84	TIME 11:45 AM	ORIG. PERIODIC	WASTE NO WASTE H&H
			SEWAGE SYSTEM PUBLIC PRIVATE



7JJ829



8JJ829

7JJ829 } These photos identify that the overflow was
8JJ829 } indeed active at the time of inspection.
(Note bubbles in both photos)

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4533

PAGE FIVE

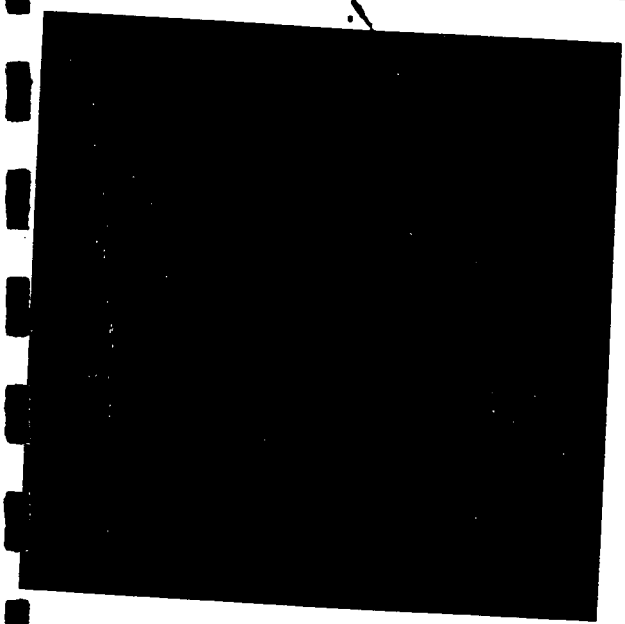
NAME OF FACILITY	Commercial Envelope Mfg & Inc	OWNER OFFICER	Ira Crystal
COMPANY NAME		CONTACT	Kerry Brannigan
PLANT ADDRESS	900 Grand Blvd	VILLAGE	Deer Park
MAILING ADDRESS		TOWN	Babylon

PAGE 1 OF

TEL 242-2500

ZIP 11729

DATE 29 AUG 84	TIME 11:45 AM	ORIG. PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC



9JJ829

10JJ829

9JJ829 – overflow from "bubbling pool" actively draining to solid covered pool (see diagram)

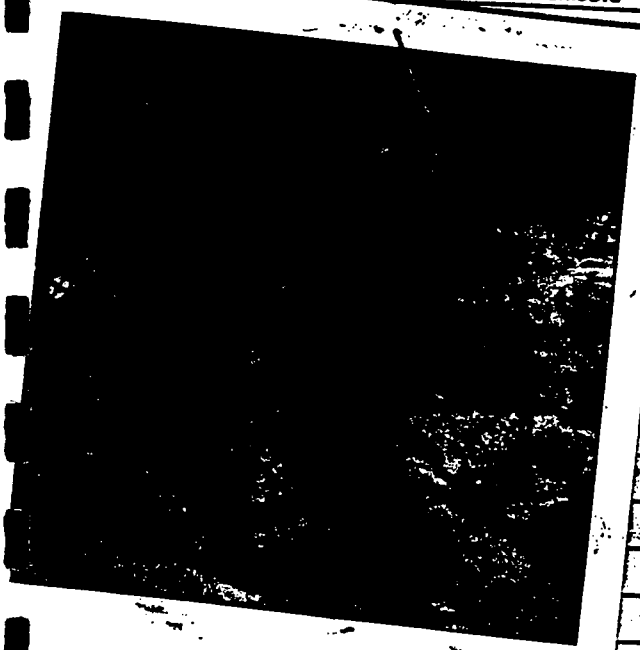
10JJ829 – overflow from "bubbling pool" traveling to second solid covered pool which was also receiving this overflow. (Reflection of Mr Abrig & Mr Brannigan)

PAGE SIX

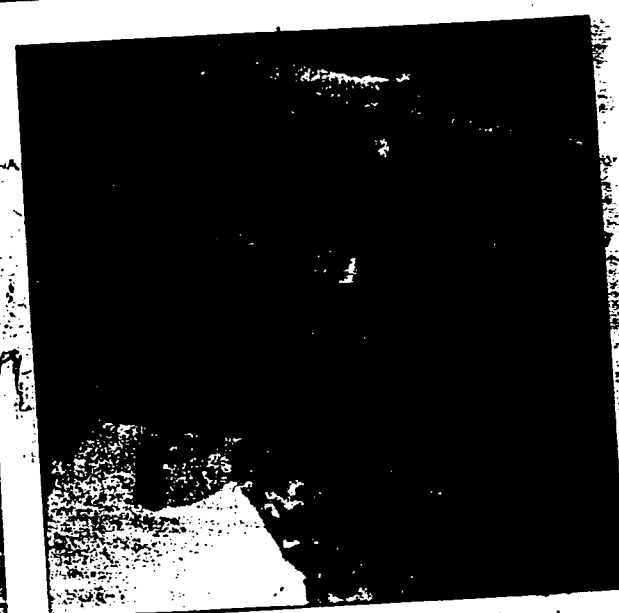
SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg Co Inc	OWNER/OFFICER: Ira Crystal		PAGE 1 OF
COMPANY NAME	CONTACT: Leroy Brannigan		TEL. 242-2500
PLANT ADDRESS: 900 Grand Blvd	VILLAGE: Deer Park	TOWN: Babylon	ZIP: 11729
MAILING ADDRESS			

[illegible] 84	TIME 11 45 AM	ORIG. PERIODIC (SF)	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC



11 JJ 829



12 JJ 829

11 JJ 829 - Area adjacent to dumpster showing large accumulation of both sludge & oil.

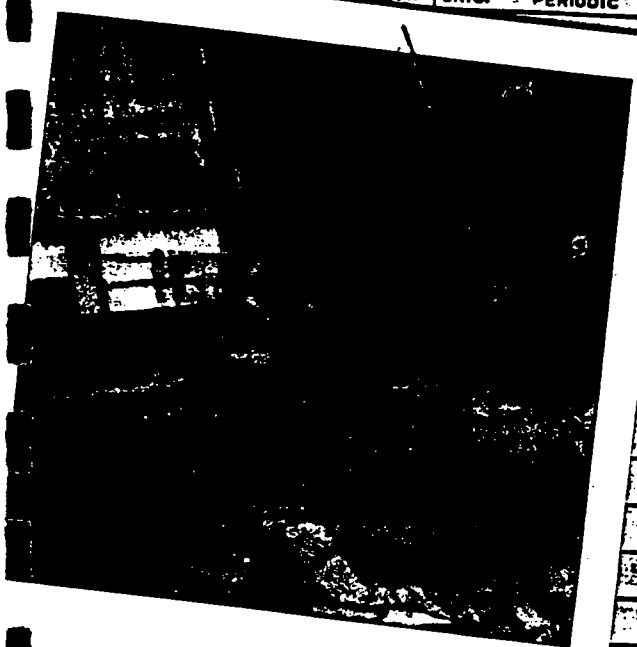
12 JJ 829 - Photo indicates obvious pool of oil (oil also noted in large amounts under dumpster but was too dark to photograph.

PAGE SEVEN

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg Co Inc		OWNER/OFFICER: IRA Crystal	PAGE 1 OF
COMPANY NAME		CONTACT: Leroy Brannigan	TEL. 242-2500
PLANT ADDRESS: 900 Grand Blvd	VILLAGE: Deer Park	TOWN: Babylon	ZIP: 11729
MAILING ADDRESS			

[illegible]	TIME 11 45 AM	ORIG. PERIODIC RE.	WASTE	NO	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE



13JJ829

14JJ829

13JJ829 } loading dock area showing sludge & storm
14JJ829 } drain cover

Page Eight

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	Commercial Envelope Mfg Co Inc	OWNER/OFFICER	IRA CRYSTAL
COMPANY NAME		CONTACT	LeRoy Brannigan
PLANT ADDRESS	900 Grand Blvd	VILLAGE	Deer Park
MAILING ADDRESS		TOWN	Babylon

PAGE 1 OF

TEL 242-2500

ZIP 11729

DATE 8/29/84 TIME 45

NO WASTE H&H

SEWAGE SYSTEM PUBLIC PRIVATE

15 JJ829

15 JJ829 -- After samples were procured from this storm drain located in the loading dock, photo was taken of gloves used by myself while handling the bottles, and of sampling weight.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/OFFICER Mr. Ira Krystel	PAGE ___ OF ___
COMPANY NAME Commercial Envelope Mfg Corp.		CONTACT "	TEL.
PLANT ADDRESS 900 Grand Blvd.	VILLAGE Deer Park	TOWN Babi NaYa	ZIP
MAILING ADDRESS			

DATE Mar. 3, 86	TIME PM	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

1) CPC on site removing liquid + sludge from loading dock area.

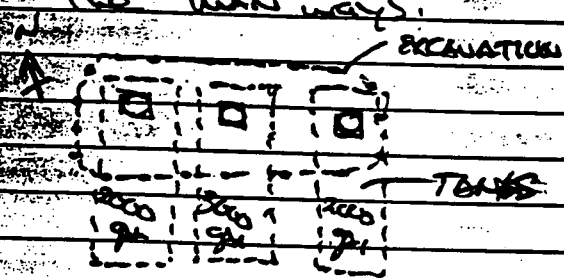
2) Site of "bubbling pool" which contained leaching pool below has been completely scavenged ie liquid/+ sludge removed down to clean sand.

Inspected area + gave approval for filling in pool with sand; (to grade.)

Pool by inspection was approx 12 ft. wide + 3 rungs deep, approx 15 ft. There were no external pipes entering the pool, the only methode that the material entered the pool was thru the hole broken thru the side wall of the dome.

Was informed by Eder Asso. rep. that ~~[illegible]~~ Mr. Sikrystel informed him that the ingrounded ink waste tanks are, 2x2000 gal, 1x3000 gal with the largest in the middle, the man ways are off center, 1/4 from end of tank, long end of tank is to the South of the man ways.

Incineration has not been running all day.



Daniel Oh, PHS

117

18-234: 8/84

REFERENCE NO. 7

NUS CORPORATION

TELECON NOT.

CONTROL NO:

DATE: 7/15/87

TIME: 0935 HRS

DISTRIBUTION:

COMMERCIAL ENVELOPE MFG.
TDD 02-8704-03

BETWEEN: D. OBRIG

OF: SUFFOLK COUNTY HEALTH DEPT

PHONE: (516)451-463.

AND: E. L. LEONARD

DISCUSSION:

(NUS

RE: BACKGROUND INFO.

- SPDES PERMIT FOR COOLING WATER ONLY, NONE FOR INDUSTRIAL WASTE. NOT SURE IF PERMIT ACTIVE. DISCHARGES TO GROUNDWATER.

- RCRA PERMIT NONE. THEY ARE PERMITTED UNDER SUFFOLK COUNTY ART. 12 TO HAVE THE 2000 GAL. HOLDING TANK (INSIDE/ABOVE GROUND + TO ~~HAUL +~~ HOLD + HAUL DRUMS OF WASTE. THE UNDERGROUND TANK + LEACHING POOLS WERE ILLEGAL.

- NEVER DID PROVE IF UNDERGROUND TANKS LEAKED OR NOT.

ACTION ITEMS:

- THERE WAS A 3 MONTH PERIOD THAT NO NATURAL GAS WAS UTILIZED BY THE INCINERATOR, BUT THEY STILL PRODUCED WASTE. WHERE DID WASTE GO, IF AS THEY STATED THEY WERE NOT USING UNDER GROUND TANK + LEACHING POOLS.

NUS 287 REV. SEP 0581

119

REFERENCE NO. 8

[redacted] By RH
8VJ829

DATE COMPLETED 10-18-84
EXAMINED BY RH FA
S.R.C 10/19/84 OL

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

e Commercial Envelope

ation 900 Grand Blvd, DP

nt of Collection Storm drain in loading dock east side of bldg.

arks:

Compound	pbb	Compound	ppb
thylene Chloride	71	Cis Dichloroethylene	2300
eon 113	<4	Benzene	11
loroform	—	Toluene	500
1,1 Trichloroethane	15	Chlorobenzene	<12
rbon Tetrachloride	<1	Ethylbenzene	16
1,2 Trichloroethylene	520	Xylene(s)	65
omodichloromethane	<3	Bromobenzene	<16
1,2 Trichloroethane	<5	Chlorotoluene(s)	<12
lorodibromomethane	<2	1,3,5 Trimethylbenzene	20
trachloroethylene	970	1,2,4 Trimethylbenzene	45
omoform	<5	m,p-Dichlorobenzene	<14
1,2,2 Tetrachloroethane	<3	o-Dichlorobenzene	<14
tane	<40	p-Diethylbenzene	<10
yrene	49	1,2,4,5 Tetramethylbenzene	<10
Nonane	190	1,2,4 Trichlorobenzene	<16
Ethyltoluene	50	1,2,3 Trichlorobenzene	<18
Decane	400		
Undecane	64		

During transport of the sample from collection point to laboratory the chain of custody must not be broken. The sample should be delive by the sample collector or a designated representative who will sign for the receipt, integrity, and transfer of the sample during shipmen

	SIGNATURE	AFFILIATION	DATE	TIME
1. Collected by	J. Johnson	SCDHS	8/29/84	1:06 pm
2. Transfered to	Richard H. Hollowell	SCPHL	8/29/84	14:[illegible]
3. Transfered to				

121

FIELD

NO. 1 DO 15-1

BY David Obry
NAME, NOT INITIALS

COL. 15 JAN 81

COL. 2:30 PM

LABORATORY

LAB NO. 1-81-41

TYPE SAMPLE IND-PRE

DATE REC'VD. 1/15

TIME REC'VD. 4:20 PM

DATE COMPLETED 1/30/81

EXC. Cr+6 2/9/81

SUFFOLK COUNTY HEALTH SERVICES LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

OR FIRM Commercial Envelope Co.

ESS OR LOCATION 900 Grand Blvd. Deer Park.

OF COLLECTION Spill, 30 ft. NE, pipe thru. fence.

RKS/INSTRUCTIONS

TEST	RESULT		TEST	RESULT mg./liter		TEST	RESULT mg./liter
CONDUCT	umho		NITRATE-N			COPPER 1.0	2.8
H			NITRITE			IRON	
TEST	RESULT m.g./liter		AMMONIA-N			MANGANESE	
h. ALKALINITY			TKN		✓	CHROMIUM	43.
ALKALINITY			O-PO_4-P			NICKEL	
HLORIDE					✓	ZINC <.0	11.
LUORIDE						MAGNESIUM	
ANIDE			TOT. SOLIDS			CALCIUM	
			SUS. SOLIDS		✓	LEAD .05	2.1×10^2
LFATE			DISS. SOLIDS		✓	CADMIUM	~~.01~~
AS					✓	SILVER .1	2.1
.D.						SODIUM	
C.						POTASSIUM	
						BARIUM	
			FIELD D.O.		X	Cr^{+6} .1	.24
			FIELD TEMP				
			FIELD pH				
			FIELD COND.	umho		122	

2

34.112

REFERENCE NO. 14

SAMPLE CROSS - REFERENCE

Sample I.D	Type	Organic Report #	Inorganic Report #
NYS1-S1	Soil	BK376	MBE899
NYS1-S2	Soil	BK378	MBJ295
NYS1-GW1	Groundwater	BK399	MBK468
NYS1-GW2	Groundwater	BK400	MBK567
NYS1-GW3	Groundwater	BK501	MBK568
NYS1-TRBL1	Aqueous Trip Blank	BK397	N/A
NYS1-TRBL2	Aqueous Trip Blank	BK398	N/A
NYS1-RIN1	Aqueous Rinsate Blank	BK394	MBJ449
NYS1-RIN2	Aqueous Rinsate Blank	BK395	MBJ450

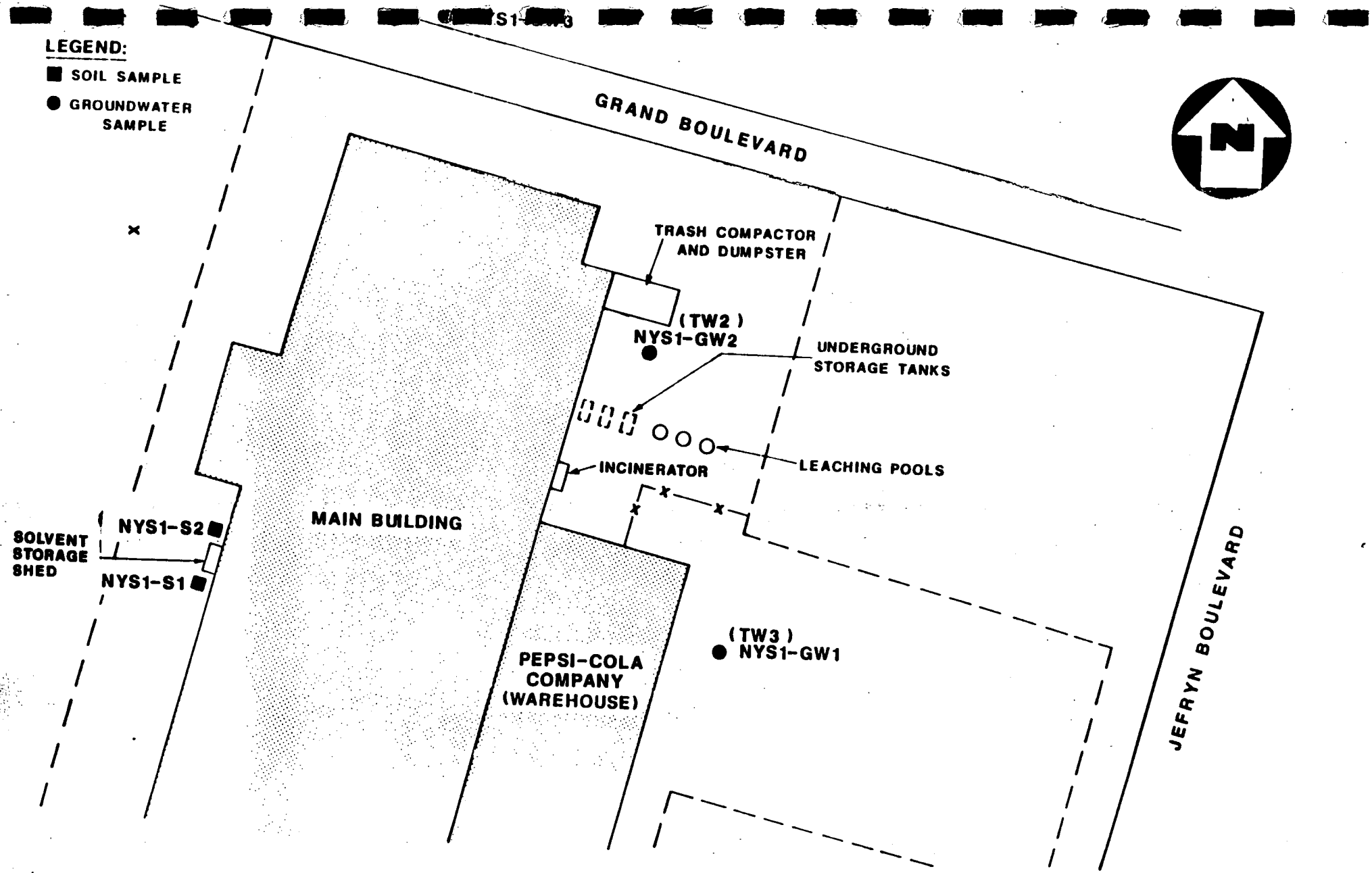


FIGURE 2

SAMPLE LOCATION MAP

COMMERCIAL ENVELOPE MFG. CO. INC., DEER PARK, N.Y.

(NOT TO SCALE)

NUS CORPORATION

ANALYTICAL DATA
NAME:COMMERCIAL ENVELOPE MFG.CO.,INC.
DATE:7/13/87
CASE NUMBER:7610

VOLATILES

SAMPLE NUMBER	NYS1-S1	NYS1-S2	NYS1-GW1	NYS1-GW2	NYS1-GW3	NYS1-RIN1	NYS1-RIN2	NYS1-TB1	NYS1-TB2
TRAFFIC REPORT NUMBER	BK376	BK378	BK399	BK400	BK501	BK394	BK395	BK397	BK398
MATRIX	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Chloromethane									
Bromomethane									
Vinyl Chloride									
Chloroethane			7.9 J						
Methylene Chloride	Q	Q	Q	Q	Q	Q	Q	Q	
Acetone	Q	Q	Q	Q	Q	Q	Q	Q	44.0 B
Carbon Disulfide									4.4 B
1,1-Dichloroethene									
1,1-Dichloroethane									
Trans-1,2-Dichloroethene									
Chloroform									
1,2-Dichloroethane									
2-Butanone									
1,1,1-Trichloroethane			2.8 J		1.7 J				
Carbon Tetrachloride									
Vinyl Acetate									
Bromodichloromethane									
1,2-Dichloropropane									
Trans-1,3-Dichloropropene									
Trichloroethene									
Dibromochloromethane									
1,1,2-Trichloroethane									
Benzene									
cis-1,3-Dichloropropene									
2-Chloroethylvinylether									
Bromoform									
2-Hexanone									
4-Methyl-2-Pentanone									
Tetrachloroethene		6.3	1.5 J	1.9 J					
1,1,2,2-Tetrachloroethane									
Toluene									
Chlorobenzene						7.2	9.1	5.7	9.2
Ethylbenzene									
Styrene									
Total Xylenes									

NOTES TO ORGANICS DATA:
Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
J - compound present below contract-specified detection limits, but above instrument detection limits
B - compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
E - value estimated due to laboratory interference
NR - analysis not required

ANALYTICAL DATA
NAME:COMMERCIAL ENVELOPE MFG.CO.,INC.
DATE:7/13/87
CASE NUMBER:7610

SEMI-VOLATILES

SAMPLE NUMBER	NYS1-S1	NYS1-S2	NYS1-GW1	NYS1-GW2	NYS1-GW3	NYS1-RIN1	NYS1-RIN2
TRAFFIC REPORT NUMBER	BK376	BK378	BK399	BK400	BK501	BK394	BK395
MATRIX	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
2,4-Dinitrophenol							
4-Nitrophenol							
Dibenzofuran							
2,4-Dinitrotoluene							
2,6-Dinitrotoluene							
Diethylphthalate							
4-Chlorophenylphenyl ether							
Fluorene							
4-Nitroaniline							
4,6-Dinitro-2-Methylphenol							
N-Nitrosodiphenylamine							
4-Bromophenylphenyl ether							
Hexachlorobenzene							
Pentachlorophenol							
Phenanthrene							
Anthracene							
Di-n-Butylphthalate							
Fluoranthene		Q	Q	Q	Q		
Pyrene							
Butylbenzylphthalate							
3,3'-Dichlorobenzidine							
Benzo(a)Anthracene							
bis(2-Ethylhexyl)Phthalate							
Chrysene							
Di-n-Octyl Phthalate							
Benzo(b)Fluoranthene							
Benzo(k)Fluoranthene							
Benzo(a)Pyrene							
Indeno(1,2,3-cd)Pyrene		Q					
Dibenzo(a,h)Anthracene							
Benzo(g,h,i)Perylene							

NOTES TO ORGANICS DATA:
Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
J - compound present below contract-specified detection limits, but above instrument detection limits
B - compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
E - value estimated due to laboratory interference
NR - analysis not required

ANALYTICAL DATA
NAME:COMMERCIAL ENVELOPE MFG.CO.,INC.
DATE:7/13/87
CASE NUMBER:7610

SEMI-VOLATILES

SAMPLE NUMBER	NYS1-S1	NYS1-S2	NYS1-GW1	NYS1-GW2	NYS1-GW3	NYS1-RIN1	NYS1-RIN2
TRAFFIC REPORT NUMBER	BK376	BK378	BK399	BK400	BK501	BK394	BK395
MATRIX	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Phenol							
bis(2-Chloroethyl)Ether							
2-Chlorophenol							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
Benzyl Alcohol							
1,2-Dichlorobenzene							
2-Methylphenol							
bis(2-Chloroisopropyl)Ether							
4-Methylphenol							
N-Nitroso-Di-n-Propylamine							
Hexachloroethane							
Nitrobenzene							
Isophorone							
2-Nitrophenol							
2,4-Dimethylphenol							
Benzoic Acid							
bis(2-Chloroethoxy)Methane							
2,4-Dichlorophenol							
1,2,4-Trichlorobenzene							
Naphthalene							
4-Chloroaniline							
Hexachlorobutadiene							
4-Chloro-3-Methylphenol							
2-Methylnaphthalene							
Hexachlorocyclopentadiene							
2,4,6-Trichlorophenol							
2,4,5-Trichlorophenol							
2-Chloronaphthalene							
2-Nitroaniline							
Dimethyl Phthalate							
Acenaphthylene							
3-Nitroaniline							
Acenaphthene							

ANALYTICAL DATA
NAME:COMMERCIAL ENVELOPE MFG.CO.,INC.
DATE:7/13/87
CASE NUMBER:7610

INORGANICS

SAMPLE NUMBER	NYS1-S1	NYS1-S2	NYS1-GW1	NYS1-GW2	NYS1-GW3	NYS1-RIN1	NYS1-RIN2
TRAFFIC REPORT NUMBER	MBE899	MBJ295	MBK468	MBK567	MBK568	MBJ449	MBJ450
MATRIX	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS	mg/kg	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Aluminum	9820	6070	65000	38100	64600		
Antimony	[8.04] E						
Arsenic	5.20 E	4.48 E	74.9	19.0	29.7		
Barium	[13.8]	[11.4]	375	147	367		
Beryllium			6.4		[4.2]		
Cadmium	1.24		20.1	8.9	9.8		
Calcium	1300	2410	22200	23600	13500		
Chromium	10.8	8.78	104 E	87.4 E	142 E		
Cobalt	[4.42]	[3.45]	98.2	[25.5]	[49.2]		
Copper	Q	Q	Q	Q	Q	25.1	43.7
Iron	10900	7820	160000	63400	81200		130
Lead		53.4 E	152	33	548		
Magnesium	1300	[890]	12400	7580	12100		
Manganese	89.6	56.8	2650	832	5710		
Mercury		0.69			Q		0.52
Nickel	[4.36]	[1.76]	126 E	58.3 E	104 E		
Potassium	265	183	6790	13840	6530		
Selenium			Q	Q	Q	Q	Q
Silver	2.29			43.4			
Sodium			16500	23300	12200		
Thallium							
Vanadium	13.4	[7.21]	150 E	83.5 E	130 E		
Zinc	20.7	62.5	374	179	349	[15.5]	[15.1]

NOTES TO INORGANICS DATA:
Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
[]- compound present below contract-specified detection limits, but above instrument detection limits
B - compound found in laboratory blank as well as the sample and indicates possible/probable blank contamination
E - value estimated due to laboratory interference
NR- analysis not required

ANALYTICAL DATA
NAME:COMMERCIAL ENVELOPE MFG.CO.,INC.
DATE:7/13/87
CASE NUMBER:7610

PESTICIDES/PCBs

SAMPLE NUMBER	NYS1-S1	NYS1-S2	NYS1-GW1	NYS1-GW2	NYS1-GW3	NYS1-RIN1	NYS1-RIN2
TRAFFIC REPORT NUMBER	BK376	BK378	BK399	BK400	BK501	BK394	BK395
MATRIX	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Alpha-BHC							
Beta-BHC							
Delta-BHC							
Gamma-BHC (Lindane)							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
Endosulfan I							
Dieldrin							
4,4'-DDE							
Endrin							
Endosulfan II							
4,4'-DDD							
Endosulfan sulfate		110 J					
4,4'-DDT							
Methoxychlor							
Endrin Ketone							
Chlordane							
Toxaphene							
Aroclor-1016							
Aroclor-1221							
Aroclor-1232							
Aroclor-1242							
Aroclor-1248							
Aroclor-1254							
Aroclor-1260							

NOTES TO ORGANICS DATA:

Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
J - compound present below contract-specified detection limits, but above instrument detection limits
B - compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
E - value estimated due to laboratory interference
NR - analysis not required

RECORD OF COMMUNICATION

☐ PHONE CALL
☐ OTHER (SPEC

TO: Leon Lazarus

FROM: Carol Price DiGuardia

DATE

TIME 2:00 P.M.

SUBJECT CLP Organic Data Packages for Quality Assurance Review

SUMMARY OF COMMUNICATION

The following data packages are in the DCR awaiting review by MMB:

SITE	CASE #/ SAS #	LABORATORY	ANALYSIS/ MATRIX	NUMBER OF SAMPLES	BLANK NUMBER(S)	DUPLICATE NUMBER(S)
Stamplate/ FIT-SI	7534	U.S. Testing	Organics			
			Soil	5	BK 386(TB)	BK 37[illegible]
			Water	5	BK 383(TB)	BK 388
					BK 389(RinB)	
SCP/R3-Rem	7554	SAI	Organics			
			Soil	1	BL 404(FB)	None
			Water	2	BL 405(TB)	
Marathon Battery/ R3-Rem	7572	U.S. Testing	Organics			
			Soil	13	BK 714(TB)	None
			Water	21	BK 713(FB)	
					BK 355(TB)	
Brockway Motor Trucks/ FIT-SI	7570	SRI	Organics			
			Soil	3	BK 529(TB)	None
			Water	7	BK 537(TB)	
					BK 535(RinB)	
					BK 536(RinB)	
North Sea LF/R2-Rem	7574	WCAS	Organics			
			Soil	1	BK 422(FB)	None
			Water	1		
Commercial Env. Manuf./ FIT-SI	7610	Nanco	Organics			
			Soil	2	BK 397(TB)	
			Water	7	BK 398(TB)	
					BK 394(RinB)	
					BK 395(RinB)	
Bell Aero-space/RCRA-EPA	3099B	Alliance	VOA,BNA	8	~~3099B-15~~	3099B-10
			Water			3099B-14

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES

File and Data Package

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 6300-3 WHICH MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

SURVEILLANCE AND MONITORING BRANCH REVIEW

Project Name/Site: Commercial Env Manufacturing

Case Number: 7610

Type Investigation (Circle One): Remedial Site Other

Contract No.: 68-01-7102

Laboratory: Nance

Sample Identification Numbers:

Aqueous: BK 399, BK 400, BK 501, BK 397 398 BK 394 395

Soil/Sediment: BK 376 378

Superfund Account No.: 7TF40A9ZZ

Comments:

DR

STANDARD OPERATING PROCEDURE

Title: Attachment 1 - CLP Data Assessment Checklist (GC and GC/MS Analyses)

Date: 13 APR 1987
Number: HW-4
Revision: 1

SURVEILLANCE AND MONITORING BRANCH REVIEW

Project Name/Site: Commercial Envelope Manufacturing Co

Case Number: 7610

Type Investigation (Circle One): Remedial (Site) Other

Contract No.: 68-01-7102

Laboratory: Nanco Labs, Inc

Sample Identification Numbers:

Aqueous: BK 399, BK 400, BK 501, BK 397
BK 398, BK 394, BK 395

Soil/Sediment: BK 376, BK 378

Superfund Account No.: 8TFA02P9ZZ

Comments:

CONTRACTOR AND MONITORING MANAGEMENT BRANCH REVIEW

PART I: Contractor and Preliminary Review

1.0 Data Completeness and Deliverables

	YES	NO	N/A
1.1 Was SMO CCS checklist included with package?	[✓]		

I. COVER LETTER/NARRATIVE

2.0 Cover Letter/Case Narrative

	YES	NO	N/A
2.1 Is the Narrative or Cover Letter present?	[✓]		

II. QC SUMMARY

3.0 Surrogate Percent Recovery Summaries (Form II)

	YES	NO	N/A
3.1 Are the Surrogate Percent Recovery Summaries present for each of the following matrix:			
a. Water	[✓]		
b. Soil	[✓]		
3.2 Are all the samples listed on the Surrogate Percent Recovery Summaries for each of the following matrix:			
a. Water	[✓]		
b. Soil	[✓]		
3.3 Were outliers marked correctly with an asterisk?	[✓]		
CONTRACTOR ACTION: Circle all outliers in red.			
3.4 Were two or more BN surrogates outside of contract specifications (or one surrogate less than 10% recovery for any samples?		[✓]	
Blanks?		[✓]	
If yes, were samples reanalyzed?	[ ]		✓
Were blanks reanalyzed?	[ ]		✓

	YES	NO	N/A
MMB ACTION: If initial analysis and reanalysis both have two or more surrogates outside of contract specifications (or one surrogate less than 10% recovery) for samples or blanks, reject all quantitation results, including detection limits.			
3.5 Were two or more acid surrogates outside of contract specifications (or one surrogate less than 10% recovery) for any samples?	___	[✓]	___
Blanks?	___	[✓]	___
If yes, were samples reanalyzed?	[___]	___	✓
Were blanks reanalyzed?	[___]	___	✓
MMB ACTION: If initial analysis and reanalysis both have two or more surrogates outside of contract specifications (or one surrogate less than 10% recovery) for samples or blanks, reject all quantitation results, including detection limits.			
3.6 Was one or more VOA surrogates outside of contract specifications for any samples?	___	[___]	___
Blanks?	___	[✓]	___
If yes, were samples reanalyzed?	[___]	___	✓
Were blanks reanalyzed?	[___]	___	✓
MMB ACTION: If initial analysis and reanalysis both have one or more surrogates outside of contract specifications for samples or blanks, reject all quantitation results, including detection limits.			
3.7 Was pesticides/PCB surrogate outside of contract specifications for any samples?	___	[✓]	___
Blanks?	___	[✓]	___
MMB ACTION: If yes, for samples use professional judgment to determine acceptability of data.			

	YES	NO	N/A
4.0 Contamination (Reagent Blank Summary - Form IV)			
4.1. Do any method/instrument/reagent blanks have positive results for:			
VOA's?	✓	[ ]	
B/N?	✓	[ ]	
Acids?		[✓]	
Pesticides?		[✓]	
PCBs?		[✓]	
(4.2 is not required for SI Data Packages)			
4.2 Do any field/trip blanks have positive results for:			
VOA's?	✓	[ ]	
B/N?		[✓]	
Acids?		[✓]	
Pesticides?		[✓]	
PCBs?		[✓]	

CONTRACTOR ACTION: Prepare a list of the samples associated with each of the contaminated and/or missing method blanks (attach a separate sheet).

MB ACTION: For common VOA blank contaminants found (e.g., methylene chloride, acetone, toluene and 2-butanone) reject (red-line) all associated positive results present at less than 10 times the blank contaminant levels; for all other contaminants reject (red-line) when all associated positive results are present at less than 5 times the blank contaminant levels. Do not reject any values reported with a "U" (detection limit values).

ACTOR PREPARER _____ COMPLETION DATE _____

	YES	NO	N/A
III SAMPLE DATA			
5.0 Are the Traffic Report Forms present for all samples?	[✓]		
CONTRACTOR ACTION: List missing Traffic Reports on Missing Data Tracking Form. (See 1.1)			
6.0 Organic Analysis Data			
6.1 Are the four (4) Organic Analysis Data Sheets (VOA, BNA, Pesticides and Tentatively Identified Compounds) present for each of the following.			
a. Samples and/or fractions as appropriate	[✓]		
b. Matrix spikes and matrix spike duplicates	[ ]		✓
c. Blanks	[ ]		✓
CONTRACTOR ACTION: List Missing Data Sheets on Missing Data Tracking Form. (See 1.1)			
CONTRACTOR ACTION: If no, list the missing numbers on the Missing Data Tracking Form (See 1.1)			
Holding Times			
7.1 Have any holding times from the date of collection been exceeded for:			
a. Volatiles			
Aqueous: aromatics (7 days)*		[✓]	
non-aromatics (14 days)		[✓]	
Soil/Sediment (10 days)?		[✓]	
*14 days if preserved to pH <2.			
b. NVOA's and Pesticides/PCBs:			
Aqueous (5 days to extraction, 40 days after extraction)		[✓]	
Soil/Sediment (10 days to extraction, 40 days after extraction)		[✓]	

Title: Attachment 4 - CLP Data Assessment Checklist
(GC and GC/MS Analysis)
Part I: Contractor and Preliminary Review
DOCUMENTED RISK REVIEW

Date: 13 APR 1987
Number: HW-4
Revision: 1

	YES	NO	N/A

CONTRACTOR ACTION: List the samples and their respective fractions with exceedances below. (Attach additional sheets if necessary.)

Table of Holding Time Exceedances

Sample	Sample Matrix	Fraction(s)	(See Traffic Report) Date Sampled	Date Lab Received	(See Form I) Date Extracted	(See Form I & Form V) Date Analyzed

MMB ACTION: If these holding times are exceeded, red-line all values on the data sheet (including detection limits) indicating rejection.

	YES	NO	N/A
III SAMPLE DATA PACKAGE			
1.0 Traffic Report			
1.1 Do the Traffic Reports indicate any problems with sample receipt, condition of samples or special notations affecting the quality of the data?	___	[✓]	___
MMB ACTION: Use professional judgment in evaluating any effect on the quality of the data.			
2.0 Holding Times			
2.1 Have all associated sample data which have exceeded holding times been red-lined on the data sheet (including detection limits) indicating rejection?	[___]	___	✓
MMB ACTION: Make any necessary corrections.			

STANDARD OPERATING PROCEDURE

Title: Attachment 4 - CLP Data Assessment Checklist (GC and GC/MS Analysis)
PART II: MMB Review
DOCUMENTED RISK REVIEW

Date: 13 APR 1987
Number: HW-4
Revision: 1

CASE # 7610 LAB Nanco Lab. Inc SITE Comm Env. Manuf

3.0 Conclusions: (NOTE: Reviewers must red-line unacceptable data on sample data sheets; red-line data does not imply the compound is not present) Only the MMB reviewer has the authority to red-line unacceptable data.

3.1 Data Assessment The following samples had methylene chloride and acetone red-lined (rejected) for sever blank contamination: BK 400, BK 501, BK 378, BK 399, BK376
The following samples had di-n-butyl phthalate red-lined (rejected) for method blank contamination: BK 400, BK501, BK 378, BK 399
The following samples had Benzo(a)pyrene and 1,2-Benzene dicarboxylic acid, bis(2 methyl-propyl) ester red-lined (rejected) for method blank contamination: BK 378
TIC compound in BK 400, BK501, BK395 and BK394 also present in method Blank, but not flagged with B
3.2 Contract Problems/Non-compliance Identification of this compound is questionable and should be called an unknown.

3.3 Contractor Review Problems/Errors

Reviewer's Signature: Donald G. Wright Date: 11/13/87

Verified By: Timothy Date: 11/16/87

nanco labs, inc.

Commercial Envelope

August 13, 1987

Ms. Doris Ling
USEPA - CLP
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314

Re: EPA Case #7610

Dear Ms. Ling:

Enclosed are Form V, Tune File, Mass Spectra, Initial Calibration Data, Quant and Spectra for GC/MS D on July 21, 1987. The data was inadvertently omitted from the QC Summary, Raw QC and Standard Data Package for this case (7610).

I am sorry for any inconvenience this might have caused you. Please feel free to contact me with any further questions.

Sincerely,

Sohail Jahani

Sohail Jahani
Organics Manager

cc: EMSL-LV
USEPA Region II

enclosures

SJ:plg

ROBINSON LANE, RD 6 WAPPINGERS FALLS, N.Y. 12590 PHONE: 914-221-2485

nanco labs, inc.

July 31, 1987

CASE NARRATIVE Prepared for: USEPA REGION II

CASE NUMBER: 7610

CONTRACT NUMBER: 68-01-7102

ORGANIC ANALYSIS

Case 7610 was received at Nanco Labs, Inc. on July 14, 1987. It consisted of five (5) water samples for full analysis, two (2) water for VOA only, and two (2) soil samples. Soil sample BK-378 was low level for VOA and medium level for BN/A and Pesticide fraction. Soil sample BK-376 was low level.

[Please note GPC has been done for all soils Pesticide fraction and no GPC for all BN/A fraction]

Water sample BK-399 was chosen for VOA, BN/A and pesticide QC, while soil sample BK-376 was chosen for low level Pesticide, BN/A and VOA QC, and Medium level soil sample BK-378 was chosen for BN/A and Pesticide QC (i.e., matrix spike and matrix spike duplicate).

The presence of Benzo (a) pyrene has been reported in the Blank. Although the compound meets all the identification criteria we believe this is in fact Perylene. This has been found to be a contaminant resulting from the undeuterated form of Perylene d12 (Internal Standard).

Due to occasional problems with intergration in our Hewlett Packard GC/MS system you may find some areas and concentrations in our data corrected and handwritten by our analysts.

The CRDL listed on form IV (Reageant Blank Summary) is the CRDL listed in the section C of the Protocol. The dilution/concentration factors are not taken into account.

ROBINSON LANE, RD 6 WAPPINGERS FALLS, N.Y. 12590 PHONE: 914-221-2485

nanco labs, inc.

July 31, 1987

Case Narrative Prepared for : REGION II

NANCO PROCEDURES

All files beginning with >A were run on GC/MS A and all files beginning with >B were run on GC/MS B. All files beginning with >C were run on GC/MS C, all files beginning with >D were run on GC/MS D, all files beginning with >E were run on GC/MS E, and all files beginning with >F were run on GC/MS F.

Some Tentatively Identified Compounds may show less than three "hits" or possibly zero "hits" for the results of the library search. This is due to the algorithm of the Hewlett Packard system we are using. Only data base entries of a probability of greater than one percent (1%) will be reported.

SURROGATE RECOVERIES

All surrogate recoveries are within specification, with the exception of a few surrogates in VOA fraction for sample BK-399 MSD. There is no need for reextraction because it happened on a MSD sample and there is a MS of this sample.

MATRIX SPIKE RECOVERIES

Most spikes and RPD,s are within specification. The exceptions are due to matrix interference and are noted on Form III. It should be noted that these limits are advisory only.

SAMPLE CONDITION
All samples arrived in good condition.

This case ran without problems.

Sohail Jahani
Organics Manager

SJ:plg

ROBINSON LANE, RD 6 WAPPINGERS FALLS, N.Y. 12590

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>A1639
Sample Matrix: SOIL
Data Release Authorized By: George Odell

Case No: 7610
QC Report No:124
Contract No:68-01-7102
Date Sample Received:07/14/87

SAMPLE NUMBE
BK-376

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1
Percent Moisture: 12
pH: 7.4

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~9.9 B~~
67-64-1	Acetone	~~25.0 B~~
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/ (Circle One
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	10.0 U
591-78-6	2-Hexanone	5.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	10.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

VALUE

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

U

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

J

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

C

This flag applies to pesticide parameters where the identificat has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confir by GC/MS

B

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

OTHER

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-376

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/17/87
Date Analyzed: 07/28/87
Conc/Dil Factor:----------> 1
Percent Moisture: 12

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	330.0 U
111-44-4	bis(-2-Chloroethyl)Ether	330.0 U
95-57-8	2-Chlorophenol	330.0 U
541-73-1	1,3-Dichlorobenzene	330.0 U
106-46-7	1,4-Dichlorobenzene	330.0 U
100-51-6	Benzyl Alcohol	330.0 U
95-50-1	1,2-Dichlorobenzene	330.0 U
95-48-7	2-Methylphenol	330.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	330.0 U
106-44-5	4-Methylphenol	330.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	330.0 U
67-72-1	Hexachloroethane	330.0 U
98-95-3	Nitrobenzene	330.0 U
78-59-1	Isophorone	330.0 U
88-75-5	2-Nitrophenol	330.0 U
105-67-9	2,4-Dimethylphenol	330.0 U
65-85-0	Benzoic Acid	330.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	1600.0 U
120-83-2	2,4-Dichlorophenol	330.0 U
120-82-1	1,2,4-Trichlorobenzene	330.0 U
91-20-3	Naphthalene	330.0 U
106-47-8	4-Chloroaniline	330.0 U
87-68-3	Hexachlorobutadiene	330.0 U
59-50-7	4-Chloro-3-Methylphenol	330.0 U
91-57-6	2-Methylnaphthalene	330.0 U
77-47-4	Hexachlorocyclopentadiene	330.0 U
88-06-2	2,4,6-Trichlorophenol	330.0 U
95-95-4	2,4,5-Trichlorophenol	330.0 U
91-58-7	2-Chloronaphthalene	1600.0 U
88-74-4	2-Nitroaniline	330.0 U
131-11-3	Dimethyl Phthalate	1600.0 U
208-96-8	Acenaphthylene	330.0 U
99-09-2	3-Nitroaniline	330.0 U
		1600.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	330.0 U
51-28-5	2,4-Dinitrophenol	1600.0 U
100-02-7	4-Nitrophenol	1600.0 U
132-64-9	Dibenzofuran	330.0 U
121-14-2	2,4-Dinitrotoluene	330.0 U
606-20-2	2,6-Dinitrotoluene	330.0 U
84-66-2	Diethylphthalate	330.0 U
7005-72-3	4-Chlorophenyl-phenylether	330.0 U
86-73-7	Fluorene	330.0 U
100-01-6	4-Nitroaniline	1600.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	1600.0 U
86-30-6	N-Nitrosodiphenylamine (1)	330.0 U
101-55-3	4-Bromophenyl-phenylether	330.0 U
118-74-1	Hexachlorobenzene	330.0 U
87-86-5	Pentachlorophenol	1600.0 U
85-01-8	Phenanthrene	330.0 U
120-12-7	Anthracene	330.0 U
84-74-2	Di-n-Butylphthalate	330.0 U
206-44-0	Fluoranthene	330.0 U
129-00-0	Pyrene	330.0 U
85-68-7	Butylbenzylphthalate	330.0 U
91-94-1	3,3'-Dichlorobenzidine	660.0 U
56-55-3	Benzo(a)Anthracene	330.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	330.0 U
218-01-9	Chrysene	330.0 U
117-84-0	Di-n-Octyl Phthalate	330.0 U
205-99-2	Benzo(b)Fluoranthene	330.0 U
207-08-9	Benzo(k)Fluoranthene	330.0 U
50-32-8	Benzo(a)Pyrene	330.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.0 U
53-70-3	Dibenz(a,h)Anthracene	330.0 U
191-24-2	Benzo(g,h,i)Perylene	330.0 U

(1) - Cannot be separated from diphenylamine

FORM I

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 7610

SAMPLE NUMBE

BK-376-124

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/17/87
Date Analyzed: 08/03/87
Conc/Dil Factor: -----> 2
Percent Moisture: 12

GPC Cleanup: Yes_X_ No___
Separatory Funnel Extraction: Yes___
Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	16.00 U
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	16.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
53494-70-5	Endrin Ketone	32.00 U
72-43-5	Methoxychlor	32.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	160.00 U
12674-11-2	Aroclor-1016	320.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	160.00 U
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 40000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-376

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	125	METHANE, TRICHLOROFLUORO-	VOA	107	79.0 J
2	-----	UNKNOWN ALKANE	VOA	301	10.0 J
3	-----	ISOMER OF TRIMETHYL CYCLOHEXANE	VOA	343	11.0 J
4	-----	ISOMER OF TETRAMETHYL CHCLOHEXANE	VOA	433	38.0 J
5	-----	UNKNOWN	VOA	462	21.0 J
6					
7	123422	2-PENTANONE, 4-HYDROXY-4-METHYL	BNA	76	16000.0 J
8	-----	UNKNOWN	BNA	250	1100.0 J
9	-----	ISOMER OF METHYL UNDECANE	BNA	811	1100.0 J
10	-----	UNKNOWN ALKANE	BNA	1329	1500.0 J
11	-----	UNKNOWN	BNA	1496	2300.0 J
12	-----	UNKNOWN	BNA	2584	2900.0 J
13	-----	UNKNOWN	BNA	1652	1500.0 J
14	-----	UNKNOWN	BNA	1655	5000.0 J
15	-----	UNKNOWN	BNA	1691	4400.0 J
16	-----	UNKNOWN	BNA	1737	2100.0 J
17	-----	UNKNOWN	BNA	1743	2100.0 J
18	-----	UNKNOWN	BNA	1776	1600.0 J
19	-----	UNKNOWN	BNA	1829	1800.0 J
20					
21					
22					
23					
24					
25					
26					

FORM I, PART B

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>A1642
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 7610
QC Report No:124
Contract No:68-01-7102
Date Sample Received:07/14/87

BK-378

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 7.5
Percent Moisture: 20

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
-01-4	Vinyl Chloride	10.0 U
-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~9.6 B~~
67-64-1	Acetone	~~26.0 B~~
-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
-60-5	Trans-1,2-Dichloroethene	5.0 U
66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
93-3	2-Butanone	10.0 U
55-6	1,1,1-Trichloroethane	5.0 U
-23-5	Carbon Tetrachloride	5.0 U
08-05-4	Vinyl Acetate	10.0 U
27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	6.3
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

L
e result is a value greater than or equal to the detection nit, report the value.

tes compound was analyzed for but not detected. Report inimum detection limit for the sample with the U(e.g.10U sed on necessary concentration dilution actions. (This is not arily the instrument detection limit.) The footnote should -Compound was analyzed for but not detected.The number is minimum attainable detection limit for the sample.

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

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

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

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)
MEDIUM LEVEL

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-378

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed: 07/28/87
Conc/Dil Factor:----------> 1
Percent Moisture: 20

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	19800.0 U
111-44-4	bis(-2-Chloroethyl)Ether	19800.0 U
95-57-8	2-Chlorophenol	19800.0 U
541-73-1	1,3-Dichlorobenzene	19800.0 U
106-46-7	1,4-Dichlorobenzene	19800.0 U
100-51-6	Benzyl Alcohol	19800.0 U
95-50-1	1,2-Dichlorobenzene	19800.0 U
95-48-7	2-Methylphenol	19800.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	19800.0 U
106-44-5	4-Methylphenol	19800.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	19800.0 U
67-72-1	Hexachloroethane	19800.0 U
98-95-3	Nitrobenzene	19800.0 U
78-59-1	Isophorone	19800.0 U
88-75-5	2-Nitrophenol	19800.0 U
105-67-9	2,4-Dimethylphenol	19800.0 U
65-85-0	Benzoic Acid	96000.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	19800.0 U
120-83-2	2,4-Dichlorophenol	19800.0 U
120-82-1	1,2,4-Trichlorobenzene	19800.0 U
91-20-3	Naphthalene	19800.0 U
106-47-8	4-Chloroaniline	19800.0 U
87-68-3	Hexachlorobutadiene	19800.0 U
59-50-7	4-Chloro-3-Methylphenol	19800.0 U
91-57-6	2-Methylnaphthalene	19800.0 U
77-47-4	Hexachlorocyclopentadiene	19800.0 U
88-06-2	2,4,6-Trichlorophenol	19800.0 U
95-95-4	2,4,5-Trichlorophenol	96000.0 U
91-58-7	2-Chloronaphthalene	19800.0 U
88-74-4	2-Nitroaniline	96000.0 U
131-11-3	Dimethyl Phthalate	19800.0 U
208-96-8	Acenaphthylene	19800.0 U
99-09-2	3-Nitroaniline	96000.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	19800.0 U
51-28-5	2,4-Dinitrophenol	96000.0 U
100-02-7	4-Nitrophenol	96000.0 U
132-64-9	Dibenzofuran	19800.0 U
121-14-2	2,4-Dinitrotoluene	19800.0 U
606-20-2	2,6-Dinitrotoluene	19800.0 U
84-66-2	Diethylphthalate	19800.0 U
7005-72-3	4-Chlorophenyl-phenylether	19800.0 U
86-73-7	Fluorene	19800.0 U
100-01-6	4-Nitroaniline	96000.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	96000.0 U
86-30-6	N-Nitrosodiphenylamine (1)	19800.0 U
101-55-3	4-Bromophenyl-phenylether	19800.0 U
118-74-1	Hexachlorobenzene	19800.0 U
87-86-5	Pentachlorophenol	96000.0 U
85-01-8	Phenanthrene	19800.0 U
120-12-7	Anthracene	19800.0 U
84-74-2	Di-n-Butylphthalate	~~41000.0 B~~
206-44-0	Fluoranthene	19800.0 U
129-00-0	Pyrene	19800.0 U
85-68-7	Butylbenzylphthalate	19800.0 U
91-94-1	3,3'-Dichlorobenzidine	39600.0 U
56-55-3	Benzo(a)Anthracene	19800.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	19800.0 U
218-01-9	Chrysene	19800.0 U
117-84-0	Di-n-Octyl Phthalate	19800.0 U
205-99-2	Benzo(b)Fluoranthene	19800.0 U
207-08-9	Benzo(k)Fluoranthene	19800.0 U
50-32-8	Benzo(a)Pyrene	~~8900.0 JB~~
193-39-5	Indeno(1,2,3-cd)Pyrene	19800.0 U
53-70-3	Dibenz(a,h)Anthracene	19800.0 U
191-24-2	Benzo(g,h,i)Perylene	19800.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 7610

SAMPLE NUMBER

PESTICIDE/PCBs

BK-378-124

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: ~~07/23/87~~ 7/15/87 pcs
Date Analyzed: 08/03/87
Conc/Dil Factor: -----> 1
Percent Moisture: 20

GPC Cleanup: Yes_X___ No___
Separatory Funnel Extraction: Yes__X__
Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	120.00 U
319-85-7	Beta-BHC	120.00 U
319-86-8	Delta-BHC	120.00 U
58-89-9	Gamma-BHC (Lindane)	120.00 U
76-44-8	Heptachlor	120.00 U
309-00-2	Aldrin	120.00 U
1024-57-3	Heptachlor Epoxide	120.00 U
959-98-8	Endosulfan I	120.00 U
60-57-1	Dieldrin	120.00 U
72-55-9	4,4'-DDE	240.00 U
72-20-8	Endrin	240.00 U
33213-65-9	Endosulfan II	240.00 U
72-54-8	4,4'-DDD	240.00 U
7421-93-4	Endrin Aldehyde	240.00 U
1031-07-8	Endosulfan Sulfate	240.00 U
50-29-3	4,4'-DDT	110.00 J
53494-70-5	Endrin Ketone	240.00 U
72-43-5	Methoxychlor	240.00 U
57-74-9	Chlordane	1200.00 U
8001-35-2	Toxaphene	1200.00 U
12674-11-2	Aroclor-1016	2400.00 U
11104-28-2	Aroclor-1221	1200.00 U
11141-16-5	Aroclor-1232	1200.00 U
53469-21-9	Aroclor-1242	1200.00 U
12672-29-6	Aroclor-1248	1200.00 U
11097-69-1	Aroclor-1254	1200.00 U
11096-82-5	Aroclor-1260	2400.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 1 _____ Vt 10000 _____ Vi 3 _____

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-378

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimat Concentra (ug/l or
1	-----	UNKNOWN ALKANE	VOA	302	
2	565753	PENTANE, 2,3,4-TRIMETHYL	VOA	310	
3	-----	UNKNOWN ALKANE	VOA	342	
4	-----	ISOMER OF 1-EHTYL-4-METHYL CYCLOHEXANE	VOA	363	
5	-----	UNKNOWN	VOA	370	
6	-----	ISOMER OF 1-EHTYL-4-METHYL CYCLOHEXANE	VOA	381	
7	-----	UNKNOWN	VOA	392	
8	-----	UNKNOWN	VOA	432	
9	-----	UNKNOWN	VOA	461	
10	-----	UNKNOWN ALKANE	VOA	505	
11					
12	-----	UNKNOWN	BNA	196	
13	-----	ISOMER OF CYCLOHEXANE	BNA	201	
14	111466	ETHANOL, 2,2-OXYBIS	BNA	236	2
15	-----	ISOMER OF CYCLOHEXANE	BNA	279	
16	-----	UNKNOWN ALKANE	BNA	286	1
17	-----	UNKNOWN ALKENE	BNA	303	
18	493027	NAPHTHALENE, DECAHYDRO-TRANS	BNA	314	
19	112403	DODECANE	BNA	473	
20	-----	UNKNOWN ALKANE	BNA	487	
21	-----	UNKNOWN ALKENE	BNA	493	
22	62108252	DECANE, 2,6,7-TRIMETHYL	BNA	542	
23	112403	DODECANE	BNA	566	
24	0	DECANE, 2,3,5,8-TETRAMETHYL	BNA	704	
25	629992	PENTACOSANE	BNA	811	
26	84695	1,2-BENZENEDICARBOXYLIC ACID, BIS (2-METHYLPROPYL) ESTER	BNA	~~908~~	~~3~~
27	112958	EICOSANE	BNA	1359	
28	630024	OCTACOSANE	BNA	1408	
29	630068	HEXATRIACONTANE	BNA	1455	
30	544854	DOTRIACONTANE	BNA	1501	
31	-----	UNKNOWN	BNA	1621	

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

BK-394

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0343
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No:125
Contract No:68-01-7102
Date Sample Received:07/14/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 6.9
Percent Moisture: N/A

er		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
7-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
3-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
1-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
0-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
9-2	Methylene Chloride	~~[illegible]~~	124-48-1	Dibromochloromethane	5.0 U
4-1	Acetone	~~[illegible]~~	79-00-5	1,1,2-Trichloroethane	5.0 U
5-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
4-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
3-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	7.2
23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

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

E

the result is a value greater than or equal to the detection it, report the value.

cates compound was analyzed for but not detected. Report minimum detection limit for the sample with the U(e.g.10U d on necessary concentration dilution actions. (This is not ssarily the instrument detection limit.) The footnote should d U-Compound was analyzed for but not detected.The number is minimum attainable detection limit for the sample.

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

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-394

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed: 07/23/87
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	10.0 U
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 7610

SAMPLE NUMBER

BK 394

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07-15-87
Date Analyzed: 07-25-87
Conc/Dil Factor: -----> 1
Percent Moisture: N/A

GPC Cleanup: Yes___ No_X_
Separatory Funnel Extraction: Yes_X_
Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.05 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	0.50 U
12674-11-2	Aroclor-1016	1.00 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	0.50 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-394

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	-----	NONE FOUND	VOA	----	-------
2					
3					
4					
5					
6					
7	-----	Z-9-OCTADECEN-1-01	BNA	1154	~~[illegible]~~ B
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

BK-395

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0344
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No:125
Contract No:68-01-7102
Date Sample Received:07/14/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 5.6
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~3.0 JB~~
67-64-1	Acetone	~~37.0 B~~
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	10.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	10.0 U
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	9.1
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

UE

the result is a value greater than or equal to the detection imit, report the value.

icates compound was analyzed for but not detected. Report he minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not essarily the instrument detection limit.) The footnote should U-Compound was analyzed for but not detected.The number is he minimum attainable detection limit for the sample.

cates an estimated value.This flag is used either when stimating a concentration for tentatively identified compounds here a 1 1 response is assumed or when the mass spectral data cates the presence of a compound that meets the identification teria but the result is less than the specified detection limit ut greater than zero (e.g. 10J).

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-395

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed: 07/23/87
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	10.0 U
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 7610

SAMPLE NUMBER

BK 395

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 07-15-87

Date Analyzed: 07-25-87

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No_X_

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.05 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	0.50 U
12674-11-2	Aroclor-1016	1.00 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	0.50 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-395

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	-----	NONE FOUND	VOA	----	-------
2					
3					
4					
5					
6					
7	-----	UNKNOWN			
8	-----	UNKNOWN	BNA	1156	~~25.0 J~~ B
9			BNA	1420	12.0 J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

BK-397

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0347
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No: 000
Contract No:68-01-7102
Date Sample Received:07/14/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 8.4
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~3.0 JB~~
67-64-1	Acetone	~~5.0 JB~~
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	10.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	10.0 U
		5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.7
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

LUE

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

U

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

J

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

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-397

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	-----	NONE FOUND	VOA	----	-------
2					
3					
4					
5					
6					
7	-----		BNA	----	-------
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

FORM I, PART B

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0348
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No: 000
Contract No:68-01-7102
Date Sample Received:07/14/87

BK-398

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 10.2
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	44.0 B
67-64-1	Acetone	4.4 JB
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	9.2
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

VALUE

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

U

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

J

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

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610.

SAMPLE NUMBER

BK-398

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	-----	NONE FOUND	VOA	----	-------
2					
3					
4					
5					
6					
7	-----		BNA	----	-------
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0340
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No:125
Contract No:68-01-7102
Date Sample Received:07/14/87

BK-399

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/14/87
Date Analyzed:07/14/87
Conc/Dil Factor: 1 pH: 5.3
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	7.9 J
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~2.8 JB~~
67-64-1	Acetone	~~67.0 B~~
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	2.8 J
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	1.5 J
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

LUE

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

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

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

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-399

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed: 07/23/87
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	[illegible]
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 7610

SAMPLE NUMBER

BK 399

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 07-15-87

Date Analyzed: 07-25-87

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No_X_

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.05 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	0.50 U
12674-11-2	Aroclor-1016	1.00 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	0.50 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws ____ Vt 10000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-399

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	-----	NONE FOUND	VOA	----	-------
2					
3					
4					
5					
6					
7	-----	NONE FOUND	BNA	----	-------
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

FORM I, PART B

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0345
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No:125
Contract No:68-01-7102
Date Sample Received:07/14/87

BK-400

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 6.5
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~3.1 JB~~
67-64-1	Acetone	~~78.0 B~~
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	10.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	10.0 U
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	1.9 J
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

ILUE

: the result is a value greater than or equal to the detection mit, report the value.

dicates compound was analyzed for but not detected. Report e minimum detection limit for the sample with the U(e.g.10U sed on necessary concentration dilution actions. (This is not cessarily the instrument detection limit.) The footnote should ad U-Compound was analyzed for but not detected.The number is e minimum attainable detection limit for the sample.

dicates an estimated value.This flag is used either when timating a concentration for tentatively identified compounds ere a 1 1 response is assumed or when the mass spectral data dicates the presence of a compound that meets the identification iteria but the result is less than the specified detection limit t greater than zero (e.g. 10J).

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-400

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed: 07/23/87
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	10.0 U
91-58-7	2-Chloronaphthalene	50.0 U
88-74-4	2-Nitroaniline	10.0 U
131-11-3	Dimethyl Phthalate	50.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	10.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	10.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	50.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	10.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	50.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	10.0 U
85-01-8	Phenanthrene	50.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-butylphthalate	10.0 U
206-44-0	Fluoranthene	~~0.5 JB~~
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	10.0 U
56-55-3	Benzo(a)Anthracene	20.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 7610

SAMPLE NUMBER

BK 400

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 07-15-87

Date Analyzed: 07-25-87

Conc/Dil Factor: ------> 1

Percent Moisture: N/A

GPC Cleanup: Yes___ No_X_

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.05 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	0.50 U
12674-11-2	Aroclor-1016	1.00 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	0.50 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-400

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	470826	1,8-CINEOLE	VOA	365	13.0 J
2	-----	UNKNOWN	VOA	430	30.0 J
3	-----	ISOMER OF ETHYL METHYL BENZENE	VOA	481	10.0 J
4					
5					
6					
7	-----	ISOMER OF TRIMETHYL BENZENE	BNA	278	9.4 J
8	104767	1-HEXANOL, 2-ETHYL	BNA	325	25.0 J
9	1195795	FENCHONE	BNA	388	9.7 J
10	-----	UNKNOWN	BNA	439	15.0 J
11	498817	P-MENTHAN-8-01	BNA	449	120.0 J
12	-----	ISOMER OF PHENOL, TETRAMETHYL BUTYL	BNA	924	20.0 J
13	-----	ISOMER OF PHENOL	BNA	931	29.0 J
14	-----	UNKNOWN	BNA	934	13.0 J
15	-----	ISOMER OF PHENYL	BNA	938	25.0 J
16	-----	UNKNOWN	BNA	934	19.0 J
17	-----	ISOMER OF OCTYL PHENOL	BNA	957	20.0 J
18	-----	UNKNOWN	BNA	963	27.0 J
19	-----	UNKNOWN	BNA	1155	~~13.0 J~~
20	-----	UNKNOWN	BNA	1353	12.0 J
21	-----	UNKNOWN	BNA	1421	18.0 J
22					
23					
24					
25					
26					

FORM I, PART B

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>F0346
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7610
QC Report No:125
Contract No:68-01-7102
Date Sample Received:07/14/87

BK-501

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed:07/15/87
Conc/Dil Factor: 1 pH: 5.3
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	~~3.3 JB~~
67-64-1	Acetone	~~54.0 B~~
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	1.7 J
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

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

LUE

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

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

J

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

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 7610

SAMPLE NO.
BK-501

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 07/15/87
Date Analyzed: 07/23/87
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	[illegible]
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 7610

SAMPLE NUMBER

BK 501

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 07-15-87

Date Analyzed: 07-25-87

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No_X_

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 7610

SAMPLE NUMBER

BK-501

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	-----	UNKNOWN	VOA	435	200.0 J
2					
3					
4					
5					
6					
7	21964498	1,13-TETRADECADIENE	BNA	1156	~~13.9 J~~ B
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

RECORD OF COMMUNICATION

☐ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: Leon Lazarus

FROM: Amy Brochu

DATE 8/21/87

TIME 4:00 PM

SUBJECT CLP Inorganics Data Packages for Quality Assurance Review

SUMMARY OF COMMUNICATION

Attached are the following CLP Inorganics Data Packages to be reviewed for Quality Assurance:

SITE	CASE #/ SAS #	LABORATORY	ANALYSIS/ MATRIX	NUMBER OF SAMPLES	BLANK NUMBER(S)	DUPLICATE NUMBER(S)
IBM-Owego, RCRA	7620	Chemtech	Inorganics water	6	MBL176	MBL171 & 175
Beehler & Radford, FIT/SI	7608	Chemtech	Inorganics soil water	7 ~~5~~ 4	MBK580, 671	MBK578 & 661, MBK579 & 662
Cinnaminson, REM2/RI	7611	Chemtech	Inorganics water (38-dissolved, 38-total)	76	MBL079, 080,075, 076,083, 084,052, 051,049,046	MBL040 & 090, 041 & 089, 082 & 085, 081 & 086
Vineland, REM3/RI	7390	RMAL	Inorganics soil water	13 2	MBJ478,035	None
Newburgh LF, FIT/SI	7569	RMAL	Inorganics soil water	6 3	MBK728	None
Marathon Battery, REM3/RI	7617	PBS & J	Inorganics soil water	21 1	MBJ758	MBJ756 & 765, MBJ741 & 743

CONCLUSIONS, ACTION TAKEN OR REQUIRED

Commercial Envelope, FIT/SI	7610	Chemtech	Inorganics soil water	2 5	MBJ449,450	None
North Sea LF, REM2/Rem.	7612	Chemtech	Inorganics soil water	1 1	MBJ982	None
Bog Creek Farm, REM3/Rem.	7616	Accu-Labs	Inorganics water	22	MBK631,632, 616,617	None

INFORMATION COPIES TO: File

RECEIVED DEC 07 1987 S & M BRANCH

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 5300-6 WHICH MAY BE USED UNTIL SUPPLIES ARE EXHAUSTED

Title: Appendix A.1: Data Assessment - Contract Compliance (Significant Element Review)

Contractor Preparer Monica Chiaramonte Completion Date 12/3/87

NOTE: All "action" requirements apply to data preparer, unless specifically stated otherwise.

		YES	NO	N/A
1.1	Contract Compliance Screening Report (CCS) - Present?	✓		
1.2	Record of Communication (from RSCC) - Present?	[✓]		
	Action: If no, request from RSCC.			
1.3	Sample Traffic Report - Present or on file?	[✓]		
	Action: If no, request from Regional Sample Control Center (RSCC).			
1.4	Cover Page - Present?	[✓]		
	ACTION: If no, prepare Telephone Record Log, and contact laboratory.			
	Do numbers of sample correspond to numbers on Record of Communication?	[✓]		
	Do sample numbers on cover page agree with sample numbers on:			
	a. Traffic Report Sheet?	[✓]		
	b. Form I's?	[✓]		
	c. Surveillance and Monitoring Branch Review	[✓]		
	ACTION: If no for any of the above, contact RSCC for clarification.			
1.5	Form I (Data Reporting) - All present and complete?	[✓]		
	ACTION: If no, prepare telephone record log and contact laboratory.			

	YES	NO	N/A
A.1.6 Holding Times (Aqueous Samples Only) (Examine Sample Traffic Reports and Form X)			
Mercury (28 days) - Exceeded?	___	[✓]	___
Cyanide (14 days) - Exceeded?	___	[___]	✓
Other metals (6 months) - Exceeded?	___	[✓]	___
Conventionals (Use 40 CFR 136 criteria) - Exceeded?	___	[___]	✓

Which Parameters? _____

CONTRACTOR ACTION: Prepare a list of all samples and analytes for which holding times have been exceeded. Specify the number of days from date of collection (see traffic report) to the date of analysis (from raw data). Attach to checklist.

MMB ACTION: If yes, reject (red-line) values less than Instrument Detection Limit (IDL). Flag as estimated (J) those values above IDL.

A.1.7 Raw Data			
Digestion Log* for flame AA/ICP present?	[✓]	___	___
Digestion Log for furnace AA present?	[✓]	___	___
Digestion Log for mercury present?	[✓]	___	___
Digestion Log for cyanides present?	[___]	___	✓

*Weights, dilutions, and volumes used to obtain the reported values.

Measurement readout record present?	ICP	[✓]	___	___
	Flame AA	[✓]	___	___
	Furnace AA	[✓]	___	___
	Mercury	[✓]	___	___
	Cyanides	[___]	___	✓
Conventionals: _____		[___]	___	✓

	YES	NO	N/A
Record of 4 point calibration present? Flame AA	[✓]		
Furnace AA	[✓]		

NOTE: If less than 4, other standards must be run immediately after calibration, and be ± 5% of true value.

	YES	NO	N/A
Record of 4 point calibration present? Mercury	[✓]		
Cyanide	[ ]		✓
Percent solids calculations present for soil (sediments)?	[✓]		

ACTION: If no for any of above, prepare Telephone Record Log and contact laboratory.

	YES	NO	N/A
Was one prep blank analyzed for each 20 samples?	[✓]		

MMB ACTION: If no, flag as estimated (J) all data which prep blank was not analyzed.
NOTE: If only one blank was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).

	YES	NO	N/A
Do concentration of field blanks fall below two times IDL for all aqueous parameters? and Soil parameters?	[ ]	✓*	

*Cu, Hg, Zn

MMB ACTION: If no, reject (red-line) all data (aqueous) (except field blank) that has a concentration less than ten times the (three times for solids) field blank value but not flagged with a "U" (less than).

A.1.8.1 Form II (Initial and Continuing Calibration Verification

	YES	NO	N/A
Present and complete?	[✓]		

ACTION: If no, prepare Telephone Record Log and contact laboratory.

		YES	NO	N/A
A.1.8.2	Circle all values on Data Summary Sheet that are outside of contract windows. Are all calibration standards (initial and continuing) within 75-125%?	[✓]	___	___
	Are all calibration standards (initial and continuing) within 50-150%?	[✓]	___	___
	MMB ACTION: Flag as estimated (J) all data analyzed between a calibration standard of 50-75% or 125-150% recovery and nearest adjacent calibration standards reject (red-line) as unacceptable data if recovery of calibration standard is below 50% or above 150% for nearest adjacent standards.			
A.1.9.1	Form III (Blanks) - Present and complete?	[✓]	___	___
	MMB ACTION: If no, prepare Telephone Record Log and contact laboratory.			
A.1.9.2	Form III (Blanks) and Field Blanks			
	Circle all calibration blank values on Data Summary Sheet that are above IDL. Are all calibration blank values less than Contract Required Detection Limits (CRDL)?	[✓]	___	___
	MMB ACTION: If no, flag as estimated (J) on Form I all data between calibration blank with value over CRDL and nearest adjacent calibration blank.			
	Was an initial calibration blank analyzed?	[✓]	___	___
	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (whichever is more frequent)?	[✓]	___	___
	CONTRACTOR ACTION: List those analytes which are out of compliance with the above criteria.			
	MMB ACTION: If no, flag as estimated (J) all values not analyzed within 5 samples of calibration blank.			

	YES	NO	N/A
Do concentrations of prep blanks fall below two times IDL for all parameters?	[✓]		

MMB ACTION: If no, reject (red-line) all data that has a concentration less than ten times the prep blank value, but not flagged with a "U" (less than).

1.10.1 Form IV (ICP Interference Check Sample) - Present and complete? NOTE: Not required for furnace AA, flame AA, mercury and Ca, K, Na, and Mg. [✓]

ACTION: If no, prepare Telephone Record Log and contact laboratory.

1.10.2 Form IV (ICP Interference Check Sample (ICS)) - Circle all values on Data Summary Sheet that are more than ± 20% of established mean value. Are all ICP Interference Check Sample results inside of control limits (± 20% of true value)? [✓]

If no, is concentration of Al, Ca, Fe, or Mg lower in sample than in ICS? [ ] N/A ✓

MMB ACTION: If no, flag as estimated (J) those sample results for which ICS recovery is between ± 20% to 50% of mean value; and reject (red-line) those sample results for which ICS recovery is less than 50%. If ICS recovery is above 150%, reject positive results only (not flagged with a "U").

1.11.1 Form IX (ICP Serial Dilution) - Circle all values on Data Summary Sheet with a RPD greater than 10%. Are all ICP Serial Dilution results within control limit of 10% RPD? [ ] ✓* *Cr, Ni, V (aqueous)

If no, are all associated data on Form I's flagged with an "E"? [ ] ✓

MMB ACTION: If not flagged with an "E" flag as estimated (J) all associated samples results for which RPD is greater than 10% but less than 100%; reject (red-line) all associated sample results for which RPD is above 100%.

	YES	NO	N/A
NOTE: Either diluted or undiluted analysis may be used to report final value as long as either is above 10 times IDL.			
A.1.12.1 Form V (Spiked Sample Recovery) - Present and complete for each matrix type? NOTE: Not required for Ca, Mg, K, and Na (both matrix types), Al and Fe (soil only).	[✓]		
ACTION: If no, prepare telephone record log and contact laboratory.			
A.1.12.2 Form V (Spiked Sample Recovery)			
Was field blank used for spiked samples?		[✓]	
If yes, was field blank described as such on Traffic Report?	[ ]		✓
MMB ACTION: Flag all data as estimated (J) for which field blank was used as spiked sample.			
Was at least one spiked sample prepared and analyzed for: every 20 water samples?	[✓]		
Every 20 soil/sediment samples?	[✓]		
For both AA and ICP when both are used for same analyte?	[✓]		
MMB ACTION: If no, flag as estimated (J) all data for which spiked sampled was not analyzed. NOTE: If only one spiked sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			
Circle all values on Data Summary Sheet that are outside of control limits (75% to 125%).			
Are all recoveries within control limits?	[ ]*	✓*	
If no, is sample concentration greater than four times spike concentration?	[ ]	✓**	

*-Soil: Sb, As, Pb, S, Ag, Water: Al, Fe, Pb, Mn, Se

** Water: Se
Soil: Sb, As, Pb, Se, Ag

	YES	NO	N/A	
ACTION: If no, circle those analytes on Form V for which sample concentration was not greater than four times the spike concentration.				
Are any spike recoveries: a) greater than 150%?	✓*	[ ]		* Soil: Pb
b) less than 50%?	✓**	[ ]		** Soil: Sb, As, Se Water: Se
MMB ACTION: If greater than 150%, reject (red-line) all associated aqueous data not flagged with a "U" (less than value). Likewise, flag associated soil/sediment data as estimated (J) which are not flagged with a "U". If less than 50%, reject (red-line) all associated data for aqueous samples only. Flag associated soil/sediment data as estimated (J).				
A.1.13.1 Form VI (Lab) Duplicates - Present and complete for each matrix type?	[✓]			
ACTION: If no, prepare Telephone Record Log and contact laboratory.				
A.1.13.2 Form VI (Lab) Duplicates				
Was field blank used for spiked samples?		[✓]		
ACTION: If yes, flag all data as estimated (J) for which field blank was used as duplicate.				
Was at least one duplicate sample prepared and and analyzed for: every 20 water samples?	[✓]			
Every 20 soil/sediment samples?	[✓]			
MMB ACTION: If no, flag as estimated (J) all data for which duplicate sample was not analyzed. NOTE: If only one duplicate sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).				

	YES	NO	N/A
Circle all values on Data Summary Sheet that are outside of control limits (20% or CRDL).			
Are all values within control limits?	[ ]	[✓]*	
* Soil: Cr, Pb (F			
Aqueous			
Is any RPD greater than 50% where sample and duplicate are both greater than 5 times CRDL?		[✓]	
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL, but greater than CRDL?		[✓]	
MMB ACTION: If yes, reject (red-line) all associated data.			
Soil/Sediment			
Is any RPD greater than 100% where sample and duplicate are both greater than 5 times CRDL?		[✓]	
Is any difference between sample and duplicate greater than 2 times CRDL where sample and/or duplicate is less than 5 times CRDL but greater than CRDL?		[✓]	
MMB ACTION: If yes, reject (red-line) all associated data.			
A.1.13.3 Is "NC" reported in RPD column for any sample duplicate pair where either value is less than CRDL?	[✓]		
MMB ACTION: If no, write in "NC" with red pencil on Form VI and initial. Note under Data Acceptability Narrative (contract non-compliance).			
A.1.14.1 **Form VII (Instrument Detection Limits [IDL] and Laboratory Control Sample [LCS]**			
IDLs present and complete?	[✓]		
LCSs present and complete: aqueous?	[✓]		
soil/sediment?	[✓]		

	YES	NO	N/A
ACTION: If no, prepare Telephone Record Log and contact laboratory.			
A.1.14.2 Form VII (Instrument Detection Limits [IDL] and Laboratory Control Sample [LCS]			
Circle all IDL values greater than CRDL on data summary sheet.			
IS IDL greater than CRDL for any parameter?	✓*	[ ]	___
MMB ACTION: If yes, reject (red-line) all values flagged with "U" (less than "values").			
Circle all LCS values outside of control limits (80% to 120%) on data summary sheet.			
Is any LCS value: between 50% and 80%?	___	[✓]	___
between 120% and 150%?	___	[✓]	___
less than 50%?	___	[✓]	___
greater than 150%?	___	[✓]	___
MMB ACTION: Between 50% to 80%, flag all associated data as estimated (J); between 120% to 150% flag all positive (not flagged with a "U") results as estimated (J); less than 50% reject (red-line) all data; greater than 150% reject all positive results.			
A.1.15.1 Form VIII (Standard Additions Results) - Present?	[✓]	___	___
If no, is any Form I result coded with an "S" or a "+"?			
ACTION: If yes, write request on Telephone Record Log.			
A.1.15.2 Furnace Standard Addition Results - Form VIII			
Is any post-digestion spike recovery less than 10% for any result? (See RAW DATA)	___	[✓]	___
CONTRACTOR ACTION: Prepare a list of all results with recoveries less than 10%.			

*Pb(P) Smith

	YES	NO	N/A
MMB ACTION: If yes, reject (red-line) affected data.			
Is coefficient of correlation less than 0.990 for any sample?	___	[✓]	___
MMB ACTION: If yes, reject (red-line) affected data.			
A.1.15.3 Form IX (ICP Serial Dilutions)			
Present and complete for each matrix type?	[✓]	___	___
ACTION: If no, write request on Telephone Record Log.			
A.1.16.1 Dissolved Inorganics			
Were any analyses performed for dissolved as well as total analytes?	___	[___]	✓
If yes, apply the following questions only if both dissolved and total constituents are above CRDL (For SAS parameters: above 5 * IDL).			
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%.	___	[___]	✓
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	___	[___]	✓
MMB ACTION: If more than 10%, flag both dissolved and total values as estimated (J); if more than 50% reject (red-line) the data for both values.			
CONTRACTOR ACTION: Prepare a list comparing differences between all dissolved and total analytes. Compute the differences as a percent of the total analyte only when both dissolved and total concentrations are above CRDL (5 * IDC for SAS parameters).			

Title: Appendix A.3: Data Acceptability Narrative

Case# 7610 Site Commercial Envelope
Lab Chemtech

A.3.1 Are all data of acceptable quality? Yes ____ No ✓

If no, list exceptions with reason(s) for rejection of qualification as estimated value (J).

Cu, Hg - rejected (red-lined) for sample MBK 568 because the concentration of field blank is >2 x IDL and sample conc. <10 x field blank concentration.

Cu - rejected for samples MBK 567, 468 - conc. of field blank >2 x IDL, sample conc. <10 x field blank conc.

Cu - rejected for samples MBE 899, MBJ 295 - conc. of field blank >2 x IDL, sample conc. <3 x field blank conc.

Cr, Ni, V - flagged with "J" for samples MBJ 449, 450, MBK 468, 567, 568 because RPD >10% and <100% for lab duplicate (aqueous)

Pb - flagged with "J" for sample MBJ 295 - matrix spike recovery >150% (168 >150) and sample conc. <4 x spike conc.

Se, As, Sb - flagged with "J" for samples MBE 899, MBJ 295 - spike recovery <50% and sample conc. <4 x spike conc.

Se - rejected for samples MBJ 449, 450; MBK 468, 567, 568 - matrix spike recovery <50%, sample conc. <4x spike conc.

Contractor ~~MRC~~ Reviewer: Monica Chiaramonte Date: 12/3/87
Signature

Verified by: Fred J. Minn Date: 12-4-87
Signature

5266b

TING PROCEDURES

Title: APPENDIX A - CHECK LIST AND REPORT FORM.

Date:
Number:
Revision: 0

A.1 This section must be completed by the Surveillance and Monitoring Section.

A.1.1 Project Name/Site: Commercial Envelope

A.1.2 Contract No. _____ Case No. 7610

A.1.3 Objective of Study (Specify data used)

Site Inspection

2TFA02AA22

A.1.4 Name of Analytical Laboratory 1: Chemtech

A.1.4.1 Sample Matrix: Water 5 Soil/Sediment 2

Other (Describe) _____

A.1.4.2 Concentration Requested: Low ✓ Medium _____

A.1.4.3 Sample Nos.: W: MBK468, 557, 568, MBJ449, MBJ450.
S: MBE899; MBJ245.

A.1.5 Name of Analytical Laboratory 2: _____

A.1.5.1 Sample Matrix: Water _____ Soil/Sediment _____

Other (Describe) _____

A.1.5.2 Concentration Requested: Low _____ Medium _____

A.1.5.3 Sample Nos.: _____

A.1.6 Name of Laboratory 3: _____

A.1.6.1 Sample Matrix: Water _____ Soil/Sediment _____

Other (Describe) _____

A.1.6.2 Concentration Requested: Low _____ Medium _____

A.1.6.3 Sample Nos.: _____

WA85-0830 - AMENDMENT THREE (3)
U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 8/17/87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Chemtech Consulting Group

SOW No. 785

Case No. 7610

Q.C. Report No. G2- 912

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MBJ 449	G2-912-01		
450	02		
MBK 468	03		
567	04		
568	05		
MBE 899	06		
MBJ 295	07		

Comments:

ICP interelement and background corrections applied? Yes Y No ___

If yes, corrections applied before X or after ___ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

B - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

S - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

Form I

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

EPA Sample No. MBE 899

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

SOW NO. 785

LAB SAMPLE ID. NO. G2-912-06

CASE NO. 7610

Lab Receipt Date 7/14/87

QC REPORT NO. G2- 912

Elements Identified and Measured

Concentration: Low Y Medium ____

Matrix: Water ____ Soil Y Sludge ____ Other ____

ug/L or (mg/kg dry weight) (Circle One)

1.	Aluminum	9820 P	13.	Magnesium	1300 P
2.	Antimony	[8.04] P N J	14.	Manganese	89.6 P
3.	Arsenic	5.20 F N * J	15.	Mercury	0.11 U
4.	Barium	[13.8] P	16.	Nickel	[4.36] P
5.	Beryllium	0.89U P	17.	Potassium	265 A
6.	Cadmium	1.24 P	18.	Selenium	0.44U F N J
7.	Calcium	1300 P *	19.	Silver	2.29 P N
8.	Chromium	10.8 P	20.	Sodium	232U P
9.	Cobalt	[4.42] P	21.	Thallium	1.78U F
~~10.~~	~~Copper~~	~~12.4 P~~	22.	Vanadium	13.4 P
11.	Iron	10900 P	23.	Zinc	20.7 P
12.	Lead	20 V F N *		Percent Solids (%)	90.0
	Cyanide	NR			

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

Comments: Color: Before- brown After- light yellow Texture: coarse
Dilution factor for Pb; x10

Lab Manager [signature]

WA85-3839 - AMENDMENT THREE (3)

Form I

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

EPA Sample No. MBJ 295

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7610

SOW NO. 785

Lab Receipt Date 7/14/87

LAB SAMPLE ID. NO. GZ-912-07

QC REPORT NO. GZ- 912

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or (mg/kg dry weight) (Circle One)

1.	Aluminum	6070 P	13.	Magnesium	[890] P
2.	Antimony	7.08 U P N J	14.	Manganese	56.8 P
3.	Arsenic	4.48 F S N * J	15.	Mercury	0.69
4.	Barium	[11.4] P	16.	Nickel	[1.76] P
5.	Beryllium	0.86 U P	17.	Potassium	183 A
6.	Cadmium	0.86 U F	18.	Selenium	0.43 U F N J
7.	Calcium	2410 P *	19.	Silver	1.50 U P N
8.	Chromium	8.78 P	20.	Sodium	224 U P
9.	Cobalt	[3.45] P	21.	Thallium	1.72 U F
10.	Copper	20.8 P	22.	Vanadium	[7.21] P
11.	Iron	7820 P	23.	Zinc	62.5 P
12.	Lead	53.4 ≠ P J			

Cyanide NR

Percent Solids (%) 93.2

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

Comments: Color: Before- brown After- light yellow Texture: Coarse

Lab Manager: [signature]

ITS Amend. One

Form I

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

EPA Sample No. MBJ 449

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group
SOW NO. 785
LAB SAMPLE ID. NO. G2-912-01

CASE NO. 7610
Lab Receipt Date 7/14/87
QC REPORT NO. G2- 912

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100 U	P	13.	Magnesium	344 U	P
2.	Antimony	33 U	P	14.	Manganese	6 U	P
3.	Arsenic	6 U	F	15.	Mercury	0.20 U	
4.	Barium	40 U	P	16.	Nickel	5 U	P J
5.	Beryllium	4 U	P	17.	Potassium	500 U	A
6.	Cadmium	4 U	P	~~18.~~	~~Selenium~~	~~20 U~~	~~F~~ N
7.	Calcium	740 U	P	19.	Silver	7 U	P
8.	Chromium	9 U	P J	20.	Sodium	1045 U	P
9.	Cobalt	7 U	P	21.	Thallium	8 U	F
10.	Copper	25.1	P	22.	Vanadium	12 U	P J
11.	Iron	100 U	P	23.	Zinc	[15.5]	P
12.	Lead	2 U	F		Percent Solids (%)		
	Cyanide	NR					

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

Comments: Color: Before Colorless After Colorless. Clarity: Clear
Dilution factor for Se ; x10

Lab Manager [signature]

WA85-J839 - AMENDMENT THREE (3)

Form I

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

EPA Sample No. MBJ 450

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

SOW NO. 785

LAB SAMPLE ID. NO. G2-912-02

CASE NO. 7610

Lab Receipt Date 7/14/87

QC REPORT NO. G2-912

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100 U	P	13.	Magnesium	344 U	P
2.	Antimony	33 U	P	14.	Manganese	6 U	P
3.	Arsenic	6 U	F	15.	Mercury	0.52	
4.	Barium	40 U	P	16.	Nickel	6 U	P J
5.	Beryllium	4 U	P	17.	Potassium	500 U	A
6.	Cadmium	4 U	P	~~18.~~	~~Selenium~~	~~20 U~~	~~F~~ N
7.	Calcium	740 U	P	19.	Silver	7 U	P
8.	Chromium	9 U	P J	20.	Sodium	1045 U	P
9.	Cobalt	7 U	P	21.	Thallium	8 U	F
10.	Copper	43.7	P	22.	Vanadium	12 U	P J
11.	Iron	130	P	23.	Zinc	[15.1]	P
12.	Lead	2 U	F		Percent Solids (%)		
	Cyanide	X112					

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

Comments: Color: Before- Colorless After- Colorless Clarity: clear
Dilution Factor for Se; x10

Lab Manager: [signature]

193 EPA Amend. One

WA85-J839 - AMENDMENT THREE (3)

Form I

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

EPA Sample No. MBK 468

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group
SOW NO. 785
LAB SAMPLE ID. NO. G2-912-03

CASE NO. 7610
Lab Receipt Date 7/14/87
QC REPORT NO. G2- 912

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	65000	P	13. Magnesium	12400	P
2. Antimony	33 U	P	14. Manganese	2650	P
3. Arsenic	74.9	P	15. Mercury	0.20 U	
4. Barium	375	P	16. Nickel	126	P J
5. Beryllium	6.4	P	17. Potassium	6790	A
6. Cadmium	20.1	P	~~18. Selenium~~	~~2 U~~	~~P N~~
7. Calcium	22200	P	19. Silver	7 U	P
8. Chromium	104	P J	20. Sodium	16500	P
9. Cobalt	98.2	P	21. Thallium	8 U	P
~~10. Copper~~	~~288~~	~~P~~	22. Vanadium	150	P J
11. Iron	160000	P	23. Zinc	374	P
12. Lead	152	P	Percent Solids (%)		
Cyanide	NR				

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

Comments: Color: Before- brown After- yellow Clarity: very cloudy
Dilution factor for Pb: x20

Lab Manager [signature]

B - 8

194

Amend. One

WA25-J839 - AMENDMENT THREE (3)

Form I

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

EPA Sample No. MBK 567

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

SOW NO. 785

LAB SAMPLE ID. NO. G2-912-04

CASE NO. 7610

Lab Receipt Date 7/14/87

QC REPORT NO. G2- 912

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	38100 P	13.	Magnesium	7580 P
2.	Antimony	33 V P	14.	Manganese	832 P
3.	Arsenic	19.0 F S	15.	Mercury	0.20 V
4.	Barium	147 P	16.	Nickel	58.3 P J
5.	Beryllium	4 V P	17.	Potassium	13840 A
6.	Cadmium	8.9 P	~~18.~~	~~Selenium~~	~~2 V F N~~
7.	Calcium	23600 P	19.	Silver	43.4 P
8.	Chromium	87.4 P J	20.	Sodium	23300 P
9.	Cobalt	[25.5] P	21.	Thallium	8 V F
~~10.~~	~~Copper~~	~~126 P~~	22.	Vanadium	83.5 P J
11.	Iron	63400 P	23.	Zinc	179 P
12.	Lead	33 F S		Percent Solids (%)	
	Cyanide	NR			

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

Comments: Color: Before- brown After- light yellow Clarity: very cloudy

Lab Manager [signature]

B - 8

195 EPA Amend. One

WA25-J839 - AMENDMENT THREE (3)

Form I

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

EPA Sample No. MBK 568

Date 8/17/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

SOW NO. 785

LAB SAMPLE ID. NO. G2-912-05

CASE NO. 7610

Lab Receipt Date 7/14/87

QC REPORT NO. G2- 912

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	64600 P		13. Magnesium	12100 P	
2. Antimony	33U P		14. Manganese	5710 P	
3. Arsenic	29.7 F S		~~15. Mercury~~	~~0.32~~	
4. Barium	367 P		16. Nickel	104 P	J
5. Beryllium	[4.2] P		17. Potassium	6530 A	
6. Cadmium	9.8 P		~~18. Selenium~~	~~2U F~~	~~N~~
7. Calcium	13500 P		19. Silver	7U P	
8. Chromium	142 P	J	20. Sodium	12200 P	
9. Cobalt	[49.2] P		21. Thallium	8U F	
~~10. Copper~~	~~198 P~~		22. Vanadium	130 P	J
11. Iron	81200 P		23. Zinc	349 P	
12. Lead	548 F P		Percent Solids (%)		
Cyanide	NR				

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

Comments: Color: Before- brown After- light yellow Clarity: very cloudy

Lab Manager [signature]

REFERENCE NO. 17

NUS CORPORATION 0026.C 02.8704.03

TELECON NOT.

CONTROL NO:	DATE:	TIME:
-	7/16/87	0950 HRS

DISTRIBUTION:

COMMERCIAL ENVELOPE MFG
TDD 02-8704-03

BETWEEN:	OF:	PHONE:
J. FICHERIA	NYSDEC - REG 1 DIV. OF HAZ WASTE	(516) 751-7900

AND:

E. L. LEONARD

DISCUSSION: (NUS

RE: RCRA PERMIT

AS OF 7/8/86 THEY WERE LISTED AS A GENERATOR. AS A GENERATOR THEY NEED NOT BE PERMITTED, BUT MUST ABIDE BY RCRA REGULATIONS FOR A GENERATOR. EPA ID # NYD 002030690.

ACTION ITEMS:

199

NUS 267 REVISED 0581

REFERENCE NO. 1

NUS CORPORATION
SUPERFUND DIVISION

Pg 1

PROJECT NOTES

TO: COMMERCIAL ENVELOPE FILE DATE: 7/29/87

FROM: E. LEONARD COPIES:

SUBJECT: PAST AND PRESENT PROPERTY OWNERS

REFERENCE: 02-8704-03

COMMERCIAL ENVELOPE MFG. CO. INC.
900 GRAND BLVD
DEER PARK, NY 11729

DIST: 100
SECT: 67
BLOCK: 01
LOTS: 22.02, 24.55 & 24.64

LOT: 22.02

DEC 1956: TOWN OF BABYLON INDUSTRIAL DEVELOPMENT AGENCY SOLD THE PROPERTY TO COMMERCIAL ENVELOPE MFG. CO. INC.

NOV ~~1956~~ 1953: COMMERCIAL ENVELOPE MFG. CO. INC SOLD THE PROPERTY TO TOWN OF BABYLON INDUSTRIAL DEVELOPMENT AGENCY.

NOV 1953: ASM ~~REALITY~~ REALTY CORP SOLD THE PROPERTY TO COMMERCIAL ENVELOPE MFG CO.

AUG 1981: COMMERCIAL ENVELOPE MFG. CO. INC SOLD THE PROPERTY TO ASM REALITY CORP.

201

IS 643A 58 1192

MAY 1977: DORO OPERATING CORP SOLD THE PROPERTY TO COMMERCIAL ENVELOPE ~~MFG~~ CO INC.

PRIOR TO 1977 THE PROPERTY WAS OCCUPIED BY ALWIN SEAL INC. (1973-1977)

LOT: 24.55

DEC 1986: TOWN OF BABYLON INDUSTRIAL DEVELOPMENT AGENCY SOLD THE PROPERTY TO COMMERCIAL ENVELOPE MFG. CO. INC.

NOV 1983: COMMERCIAL ENVELOPE MFG CO. INC SOLD THE PROPERTY TO TOWN OF BABYLON INDUSTRIAL DEVELOPMENT AGENCY.

NOV 1983: ASM ~~REALITY~~ REALTY CORP SOLD THE PROPERTY TO COMMERCIAL ENVELOPE ~~MAT.~~ MFG CO.

APR 1982: FRED FRANK INC. SOLD THE PROPERTY TO ASM REALITY CORP.

OCT 1979: MERVILLE INDUSTRIAL ASSOC. SOLD THE PROPERTY TO FRED FRANK INC.

LOT: 24.64

DEC 1986: TOWN OF BABYLON INDUSTRIAL DEVELOPMENT AGENCY SOLD THE PROPERTY TO COMMERCIAL ENVELOPE MFG. CO.

38 58 1182

S CORPORATION
UPERFUND DIVISION

Pg 2

PROJECT NOTES

TO: COMMERCIAL ENVELOPE FILE DATE: 7/29/91

FROM: B. LEONARD COPIES:

SUBJECT: PAST + PRESENT PROPERTY OWNERS

REFERENCE: 02.8704-03

NOV 1983: COMMERCIAL ENVELOPE MFG. CO SOLD THE PROPERTY TO TOWN OF BABYLON INDUSTRIAL DEVELOPMENT AGENCY.

NOV 1953: ASM ~~REALTY~~ REALTY CORP SOLD THE PROPERTY TO COMMERCIAL ENVELOPE MFG. CO. INC

JUL 1951: KERSON HOLDING CORP SOLD THE PROPERTY TO ASM REALTY CORP

MAY 1951: BGM ~~REALTY~~ REALTY CO. SOLD THE PROPERTY TO KERSON HOLDING CORP.

JUL 1950: MELVILLE INDUSTRIAL ASSOC. SOLD THE PROPERTY TO BGM REALTY CO.

Above information aquired from Town of Babylon, Assessor Office

3A 58 1182

REFERENCE NO. 19

COUNTY OF SUFFOLK

OFFICE OF DISTRICT ATTORNEY

ADDRESS REPLY TO:
~~SPECIAL INVESTIGATION UNIT~~
Environmental Crime Unit

PATRICK HENRY
DISTRICT ATTORNEY

March 31, 1986

Dr. David Harris, Commissioner
Suffolk County Department of
Health Services
225 Rabro Drive East
Hauppauge, New York 11788

Re: Commercial Envelope Manufacturing
Company, Inc.
900 Grand Blvd., Deer Park

Dear Dr. Harris:

On January 30, 1986, the above company pled guilty to one count of Unlawful Discharge of Hazardous Waste in the Second Degree, a class E felony under the ECL, and 100 violations of Section 1217 of the Suffolk County Sanitary Code. Today, the company was sentenced to pay a fine of $25,000.00 to the hazardous waste remedial fund under its felony conviction, and an additional $25,000.00 to the County of Suffolk under the Sanitary Code convictions.

This marks the second case disposed of pursuant to District Attorney Henry's policy of negotiating settlements that will permit the County to receive half of any fine imposed. A copy of this letter, as well as Commercial Envelope's check in the amount of $25,000.00 (#72050) made out to the County of Suffolk is being sent to Deputy Commissioner O'Brien.

In addition to these fines, as a condition of the plea offer, Commercial Envelope entered into an Order on Consent with your Department in which they agreed to perform a field investigation and clean-up. That agreement is currently being carried out under your supervision.

At the risk of sounding like a broken record, I must once again draw your attention to the superb work of David Obrig and JoAnn Johnson on this case, both prior to our involvement, and during the execution of a search warrant. Their tenacious refusal to permit Commercial Envelope to ignore lawful orders of the Department created an administrative file that convinced the criminal lawyer to negotiate a settlement without our

222 MIDDLE COUNTRY ROAD ■ SUITE 222 ■ SMITHTOWN, N.Y. 11787 ■ (516) 360-5300

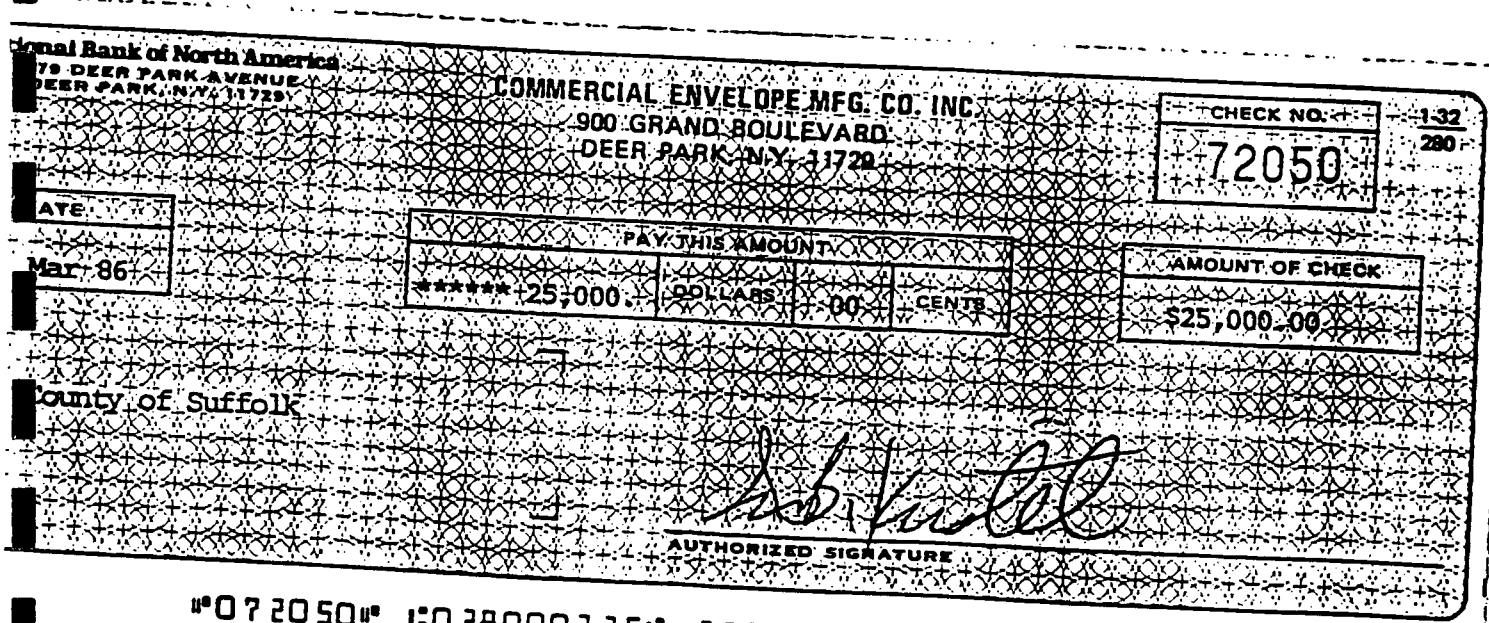
having to go to the grand jury. In addition, Ken Hill and Kavasery Raja's willingness to interrupt their busy schedules to take the samples from our search warrant and promptly analyze and report their results was, as always, much appreciated. Their reports are always our strongest tool in plea negotiating.

Very truly yours,

Fred

Frederick Eisenbud
Assistant District Attorney

cc:
Patrick Henry
Paul O'Brien
David Obrig
JoAnn Johnson


ional Bank of North America
79 DEER PARK AVENUE
EER PARK, N.Y. 11729

COMMERCIAL ENVELOPE MFG. CO. INC.
900 GRAND BOULEVARD
DEER PARK, N.Y. 11729

CHECK NO. 72050
1-32
280

DATE
Mar 86

PAY THIS AMOUNT
****** 25,000. DOLLARS 00 CENTS

AMOUNT OF CHECK
$25,000.00

County of Suffolk

AUTHORIZED SIGNATURE

⑈072050⑈ ⑆028000325⑆ 2228 27 4713⑈

National Bank of North America
1979 DEER PARK AVENUE
DEER PARK, N.Y. 11729

COMMERCIAL ENVELOPE MFG. CO. INC.
900 GRAND BOULEVARD
DEER PARK, N.Y. 11729

CHECK NO. 72050

DATE	PAY THIS AMOUNT				AMOUNT OF CHECK
31 Mar 86	****** 25,000.	DOLLARS	00	CENTS	$25,000.00

County of Suffolk

AUTHORIZED SIGNATURE

⑈072050⑈ ⑆028000325⑆ 2228 21 4713⑈

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
CASH RECEIPT

855665

RECEIVED Twenty five thousand dollars AMOUNT [$25,000] DATE 4/2/86

FOR

NAME

REFERENCE NO.

☐ = PAYMENT FOR PREVIOUS SERVICE

CENTER PROVIDING SERVICE

FROM

Commercial Envelope Mfg. Co.
NAME

900 Grand Blvd.
ADDRESS

Deer Park, NY 11729
CITY STATE ZIP CODE

☐ HEALTH CENTER ☐ HHS ☐ MH CEN
☒ ENVIRONMENTAL ☐ DA ☐ TB
☐ PHCP ☐ FP ☐ OPR

OTHER

FORM OF PAYMENT 72050

☐ CERTIFIED CHECK ☒ CHECK ☐ CASH

REC'D.
X
BY G. Holly
207

COPY 1 PAYER COPY 2 ADMINISTRATION COPY 3 PAYEE

REFERENCE NO. 20

NUS CORPORATION 0023.C 02.8704.03

TELECON NOTE

CONTROL NO:	DATE:	TIME:
-	7/16/87	SEE BELOW

DISTRIBUTION:

COMMERCIAL ENVELOPE MFG
TDD 02-8704.03

BETWEEN:	OF:	PHONE:
G. WATT	SCHD - WATER RESOURCES	(516) 451.4648

AND: E. L. LEONARD

DISCUSSION: (NUS)

RE: SPDES PERMIT.

1350 HRS MR ~~GOR~~ EH WATT WILL LOOK UP FILE AND GET BACK TO ME.

1501 HRS COMMERCIAL ENVELOPE MFG HAD A SPDES PERMIT, BUT IT EXPIRED 12/7/84. PERMIT WAS FOR DICHARGING COOLING WATER ONLY, NOT FOR INDUSTRIAL WASTE. PERMIT # 0177113. DISCHARGE TO GROUNDWATER.

PERMIT NOT ~~N GROW~~ RENEWED. CURRENTLY NO ACTIVE DISCHARGE PERMIT.

ACTION ITEMS:

209

NUS 067 REVISED 0581

REFERENCE NO. 21

EXHIBIT 1
DATE 19
JESSICA HUBSCHMAN

COUNTY OF SUFFOLK
DEPARTMENT OF HEALTH SERVICES

In the Matter of the Alleged Violation of Article 12 of the Suffolk County Sanitary Code by Commercial Envelope Manufacturing Company, Inc. 900 Grand Boulevard Deer Park, NY 11729 Respondent.	ORDER ON CONSENT NO. IW 82-49 DATE: 9/16/82

GENERAL PROVISIONS

This Department alleges that the above-named Respondent has failed to comply with the provisions of the Suffolk County Sanitary Code as specified below. Because of such alleged non-compliance, the above-named Respondent consents and agrees to the issuance of this Order o Consent, and agrees to be bound by the terms, conditions and provisions stated herein.

Respondent understands that by entering into the Order on Consent with the Department, he is affirmatively and voluntarily waiving his right to a formal adjudicatory proceeding with respect to the matters herein addressed. Although the Department will not pursue further enforcement action with respect to the specific alleged violations of law set forth below if the above-named Respondent enters into this Order and abides by its terms, Respondent understands that the Department is not agreeing to forbearance from pursuing enforcement action regarding alleged violations not addressed by this Order. Moreover, Respondent understands that notwithstanding his execution of this Order on Consent, his failure to strictly comply with all of the terms, conditions and provisions herein contained will revive the Department's rights regarding the violations alleged as set forth below subject to a set-off for any penalties already paid pursuant to this Order on Consent. Furthermore, the Respondent is hereby advised that this Order on Consent, duly executed by the Respondent's agent and the Commissioner or his duly authorized representative has the force and effect of a Commissioner's Order, the violation of which is subject to penalties as provided in Section 218 of Article 2 of the Suffolk County Sanitar Code.

A modification of any of the provisions of this Order on Consent may be obtained by a timely written request demonstrating good and sufficient cause for the change or extension requested. No modification of this Order shall ~~be~~ effective unless and until it is specifically set forth in writing by the Department.

SPECIFICATION OF ALLEGED VIOLATIONS

It is alleged that the Respondent above-named failed to comply with the following provisions of the Suffolk County Sanitary Code as indicated below:

On May 6, 1982 and May 11, 1982 you did maintain a discharge point for toxic or hazardous materials in violation of Section 1205 (a) of Article 12.

On May 11, 1982 you did discharge toxic or hazardous materials in excess of of New York State discharge standards and in violation of Section 1206 (a)(6) of Article 12.

* That you have failed to comply with the terms (tank testing and engineering report requirements) of a Suffolk County Dept. of Health Services "Commissioner's Order" dated June 17, 1982.

SPECIFIC TERMS AND CONDITIONS

In satisfaction of the above-named Respondent's alleged violations of the Suffolk County Sanitary Code, the Respondent agrees to the entering and issuance of this Order of the Commissioner of the Suffolk County Department of Health Services, and the Respondent agrees to be bound by the terms and conditions following as well as by the above General Provisions.

1. ~~By~~ Immediately, _____, Respondent shall have ceased all discharge of toxic or hazardous materials from Respondent's facility and thereafter to continue abatement of discharge unless and until:

Date of Compliance

a. a valid New York State Pollutant Discharge Elimination Systems (SPDES) Permit has been issued for such discharge, and,

b. Respondent's industrial discharge conforms to the discharge standards promulgated in the New York State Environmental Conservation Law and pursuant to any permit issued therefrom.

1a. Toxic or hazardous materials as referred to herein are defined in Article 12, Section 1203(k) of the Suffolk County Sanitary Code as any substance, solution or mixture, thereof which because of its quality, concentration, physical chemical or infectious characteristics may present a potential hazard to human health or drinking water supply quality if discharged to the land or waters of Suffolk County. This includes but is not limited to the list of hazardous substances found in Part 116, Title 40 of the Code of Federal Regulations, acids and alkalies beyond the pH range of 6.5 - 8.5, heavy metal wastes and solutions, petroleum products including fuels and waste oil, organic solvents and any solid material which if exposed to water will partially dissolve forming a toxic or hazardous liquid.

SPECIFIC TERMS & CONDITIONS (con't.)

2. By October 30, 1982, the Respondent shall submit to the department a written report which details the Respondent's present procedures for control and elimination of accidental and/or intentional discharges or spills of toxic or hazardous materials at the Respondent's facility. This report shall address standard operating procedures, instructions and/or training which is being provided to the Respondent's employees for the purpose of preventing the aforementioned illegal discharges or spills.

3. Immediately, the Respondent agrees to provide and to continue to provide the department with copies of all the Respondent's scavenger receipts for "pick-ups" of toxic or hazardous materials from the Respondent's facility for the period of time extending from September 13, 1982 to March 13, 1983.

4A. By October 30, 1982, the Respondent shall have submitted to the department an approvable engineering report which details: all industrial processes at the Respondent's facility and all toxic or hazardous materials being used or stored at the Respondent's facility. The aforementioned report shall address the Respondent's proposal for bringing the Respondent's storage of toxic or hazardous materials in drums, tanks, vats, containers, etc., into full compliance with the provisions of Article 12 of the Suffolk County Sanitary Code.

4B. Any questions concerning Article 12 storage facility requirements should be addressed to Mr. Peter Akras of this department at phone number (516) 451-4649.

5A. By October 30, 1982 the Respondent shall have tested its three (3) subsurface holding tanks for leaks. The aforementioned leak testing shall be by a method and procedure acceptable to the department.

5B. The Respondent agrees to notify the department at least two week days prior to the date of tank testing so that department representatives may witness the aforementioned tank testing.

5C. Any questions concerning tank testing procedures should be addressed to Mr. Alex Santino, P.E. of this department at phone number (516) 451-4640.

6. That in satisfaction of the alleged violations herein, in addition to the above terms, provisions and conditions,

SPECIFIC TERMS & CONDITIONS (con't.)

6. (continued)

Respondent agrees to pay a civil penalty of One Thousand ($1,000) Dollars, but that Three Hundred ($300) Dollars of the civil penalty shall be suspended and ultimately discharged on September 13, 1983 contingent upon Respondent's compliance with the terms, conditions and provisions of this Order on Consent. The remaining Seven Hundred ($700) Dollar portion of the civil penalty shall be paid to the Department of Health Services and shall be remitted with the return of this Order on Consent duly executed (signed and notarized) by the Respondent.

CONSENT BY RESPONDENT

The Respondent herein named acknowledges the authority and jurisdiction of the Commissioner of the Suffolk County Department of Health Services to issue the foregoing Order on Consent, and Respondent voluntarily waives public hearing in this matter and agrees to be bound by the terms, conditions and provisions of this Order of the Commissioner.

Dated October 3, 1982

Respondent Commercial Envelope Mfg. Co.

By: (signature) [illegible]

(printed) Alan J. Kristel

Title Vice-President

STATE OF NEW YORK)
)SS.:
COUNTY OF SUFFOLK)

On the 3th day of October, 19 82, before me personally came Alan J. Kristel to me known, who being duly sworn, deposed and said that he resides at 900 Grand Blvd, Deer Park, New York 11729 that he is the Vice-President of Respondent corporation, and that he signed his name as authorized by said corporation with full authority to do so.

NOTARY PUBLIC

PAUL CREDITOR
Notary Public, State of New York
No. 02CR4727041
Qualified in Suffolk County
Commission Expires March 30, 1984

CONSENT BY COMMISSIONER

The Commissioner of the Suffolk County Department of Health Services agrees to waive further administrative enforcement action against the Respondent named herein, and the Commissioner agrees to accept the Respondent's consent to the entry and issuance of this Order in full satisfaction of the Department's allegations herein listed, PROVIDED THAT the Respondent duly executes this Order and strictly adheres to all of its terms, conditions and provisions.

Dated: 10/19/82

Hauppauge, New York

David Harris, M.D., M.P.H.
Commissioner
Suffolk County Department
of Health Services

By:

COUNTY OF SUFFOLK

cc: J. Soderberg
Commercial Envelc
Eder Associates

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H.
COMMISSIONER

March 7, 1986

HAND DELIVERED

Gold & Watchel
780 Third Ave.
New York, NY 10017

Attn: Watchel, Esq.

Re: Commercial Envelope

Gentlemen:

In reference to the Order on Consent (IW 85-67) for Commercial Envelope, be advised that item 5 is outstanding. Commercial Envelope has not provided documentation or sample results showing that the three (3) underground ink waste tanks have been properly abandoned in accordance with Article 12 of the Suffolk County Sanitary Code.

As per Article 12, Section 1210, underground tanks must be cleaned of all residual toxic/hazardous materials and either removed from the ground or filled with clean sand or concrete. A Department representative must be present during abandonment procedures. All associated piping must also be removed or permanently filled with concrete or sand.

Commercial Envelope must prove that the three tanks are completely filled with clean sand and that no residual toxic/hazardous material is present in the tanks. If this is not proven to the satisfaction of this Department, all tank contents must be removed and properly disposed by a licensed industrial waste scavenger. The tanks must be cleaned of all residual and then properly abandoned.

Should you have any questions, please do not hesitate to contact me at 451-4649.

Very truly yours,

Vincent Frisina

Vincent Frisina, P.E.
Hazardous Material Management

VF/lr

15 HORSEBLOCK PLACE • FARMINGVILLE, NEW YORK 11738 • (516) 451-4633

[illegible]

In the Matter of the Alleged
Violation of Article 12
of the Suffolk County Sanitary Code
by Commercial Envelope Mfg. Co.
900 Grand Boulevard
Deer Park, NY 11729

Respondent.

ORDER ON CONSENT
NO. IW 85-67

DATE: November 12, 1985

GENERAL PROVISIONS

This Department alleges that the above-named Respondent has failed to comply with the provisions of the Suffolk County Sanitary Code as specified below. Because of such alleged non-compliance, the above-named Respondent consents and agrees to the issuance of this Order on Consent, and agrees to be bound by the terms, conditions and provisions stated herein.

Respondent understands that by entering into the Order on Consent with the Department, he is affirmatively and voluntarily waiving his right to a formal adjudicatory proceeding with respect to the matters herein addressed. Although the Department will not pursue further enforcement action with respect to the specific alleged violations of law set forth below if the above-named Respondent enters into this Order and abides by its terms, Respondent understands that the Department is not agreeing to forbearance from pursuing enforcement action regarding alleged violations not addressed by this Order. Moreover, Respondent understands that notwithstanding his execution of this Order on Consent, his failure to strictly comply with all of the terms, conditions and provisions herein contained will revive the Department's rights regarding the violations alleged as set forth below subject to a set-off for any penalties already paid pursuant to this Order on Consent. Furthermore, the Respondent is hereby advised that this Order on Consent, duly executed by the Respondent's agent and the Commissioner or his duly authorized representative has the force and effect of a Commissioner's Order, the violation of which is subject to penalties as provided in Section 218 of Article 2 of the Suffolk County Sanaitary Code. Further, the Department recognizes that there is no admission of fault or guilt by the Respondent concerning any alleged violation of this Order on Consent.

A modification of any of the provisions of this Order on Consent may be obtained by a timely written request demonstrating good and sufficient cause of the change or extension requested. No modification of this Order shall be effective unless and until it is specifically set forth in writing by the Department.

SPECIFICATION OF ALLEGED VIOLATIONS

It is alleged that the Respondent above-named failed to comply with the following provisions of the Suffolk County Sanitary Code as indicated below:

1. On July 7, 1985 - discharge to surface of a toxic or hazardous material (organics - location 3 on Appendix A), in violation of Article 12, Section 1205.

2. As of August 21, 1985 - failure to reclaim, recover and clean up July 7, 1985 discharge (Item 1 above) in violation of Article 12, Section 1217(c).

SPECIFIC TERMS AND CONDITIONS

In satisfaction of the above-named Respondent's alleged violations of the Suffolk County Sanitary Code, the Respondent agrees to the entering and issuance of this Order of the Commissioner of the Suffolk County Department of Health Services, and the Respondent agrees to be bound by the terms and conditions following as well as by the above General Provisions.

LIQUID AND SLUDGE REMOVAL

1. By January 6, 1986 Respondent, as per Article 12, shall have the toxic or hazardous liquid and sludge accummulated in the loading dock area (identified on Appendix A) disposed of by an industrial waste scavenger, licensed by the New York State Department of Environmental Conservation, or by on site incineration if such is acceptable to the New York State Department of Environmental Conservation.

2. Respondent shall notify the Department at least two working days (Monday through Friday) in advance of any testing or disposal of the liquid and sludge referred to in Item 1.

3. By ~~January 6~~ 2/24, 1986 Respondent shall have the liquid and sludge below the area identified as 3 on Appendix A, disposed of in accordance with Items 1 and 2 above.

4. Immediately upon completion of Item 3 above, Respondent shall have the area identified as 3 on Appendix A filled to grade with clean sand.

5. By ~~January 6~~ 2/24, 1986 Respondent shall provide documentation or sample results that show the three (3) underground ink waste tanks identified as such on Appendix A have been properly abandoned in accordance with Article 12. If the Department finds abandonment was improperly done, Respondent shall remove

SPECIFIC TERMS AND CONDITIONS
(continued)

all material from the three tanks.

6. Immediately upon completion of Item 5 above, Respondent shall have the material so removed, if such is necessary, in accordance with the procedures listed in Items 1 and 2 above.

TOXIC OR HAZARDOUS CHEMICALS REGISTRATION

7. By ~~Jan. 6~~ Feb 24 OK, JVS + V.P., 1985 Respondent shall have submitted to the Department an approvable engineering report which details all toxic or hazardous materials being used or stored at the Respondent's facility.

8. The report specified in Item 7 above shall include approvable engineering plans together with application(s) for "Permit(s) to Construct an Above/Underground Toxic or Hazardous Liquid Storage Facility", to bring Respondent's facility into full compliance with Article 12 of the Suffolk County Sanitary Code.

9. The report specified in Item 7 above shall include a completed "Toxic Liquid Storage Registration Form", together with the appropriate registration fee.

10. Respondent shall complete construction in accordance with the approved permit to construct referred to in Item 8 above, on or before the expiration date of said permit.

11. Respondent shall notify the Department for the purpose of inspecting the completed construction referred to in Item 10 above.

12. Any questions concerning Article 12 or testing methods should be addressed to Mr. Vincent Frisina, P.E., of this Department at telephone number (516) 451-4649.

WASTE INCINERATOR

13. Immediately, Respondent shall take all necessary steps to insure that Respondent's industrial waste holding tank and incinerator comply with all applicable state regulations.

GROUNDWATER QUALITY STUDY

14. By December 2, 1985 Respondent shall submit a written proposal to this Department for determining the quality of groundwater which exists at 900 Grand Boulevard in Deer Park, New York, hereinafter known as the site, and downstream in the direction of groundwater flow from the aforementioned site. Rec. 11/26/85

219

SPECIFIC TERMS AND CONDITIONS
(continued)

. The above proposal shall provide for the installation of groundwater monitoring wells. These wells shall be installed so as to intersect the groundwater and allow sampling of same for organic solvents and metals.

.6. Within sixty (60) days of Department's written approval of the aforementioned proposal, all monitoring wells are to be installed in accordance with the proposal as approved by the Department, and groundwater samples, from these wells, submitted to a New York State certified laboratory. Initial samples are to be analyzed for organic solvents and metals.

.7. Within one hundred twenty (120) days of Department's written approval of the Respondent's proposal, the Respondent shall have submitted its finalized report on the quality and direction of groundwater flow at the site.

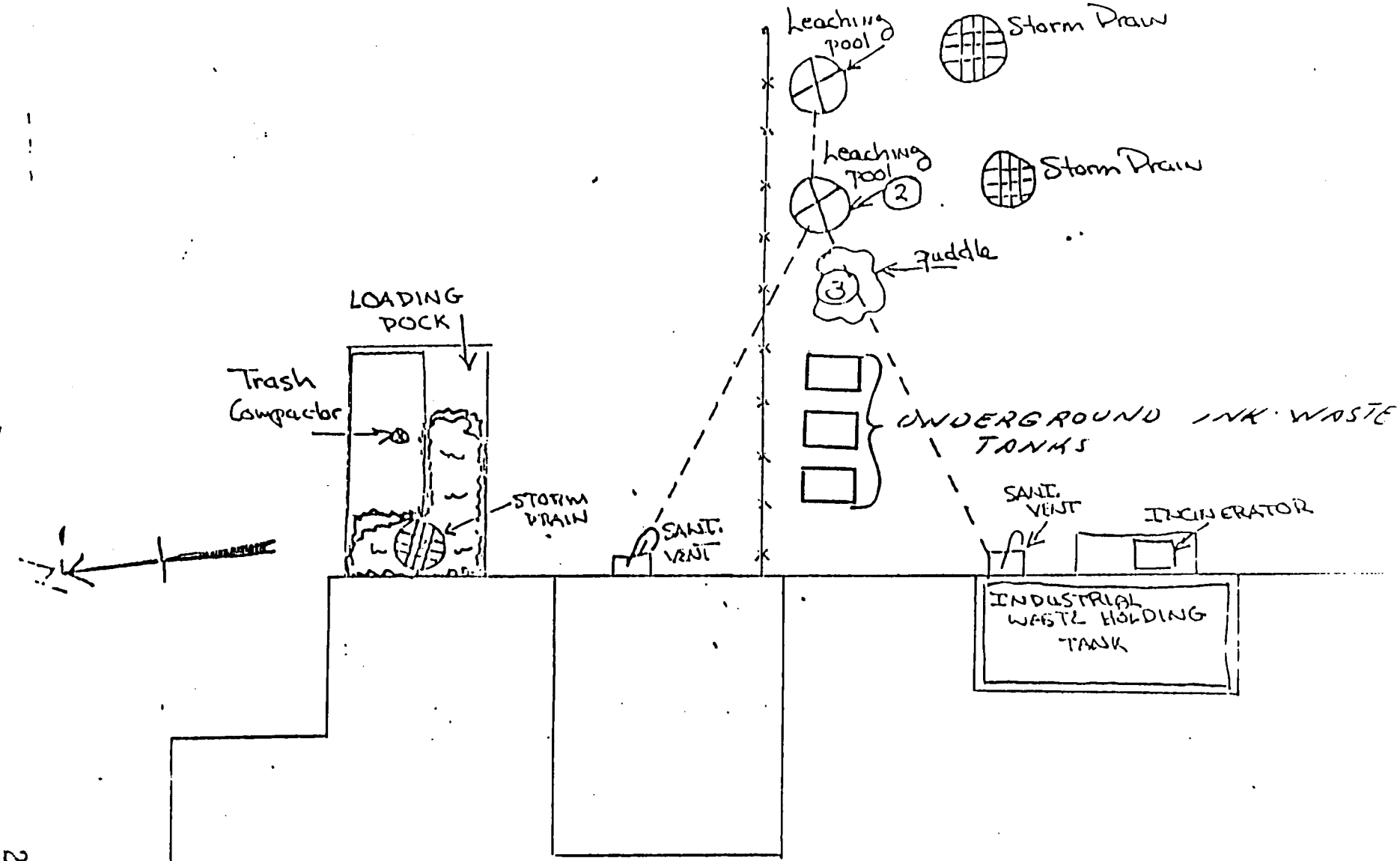
. The report referred to in Item 17 above shall contain all laboratory analysis results of water samples taken from the monitoring wells, and the absolute groundwater elevation above mean sea level of each well.

9. If a plume of contamination attributable to site activities is found to exist, then the Respondent shall submit a proposal for defining the vertical and horizontal extent of this plume and its chemical constituents.

The above proposal and report shall be prepared by qualified groundwater hydrogeologist who has experience in performing an investigation for determining the existence of contamination in the groundwater.

1. The aforementioned proposal and report, as well as any questions concerning it, should be addressed to Mr. James Maloney, P.E., Suffolk County Department of Health Services, 15 Horseblock Place, Farmingville, New York 11738.

The Respondent agrees to permit the Department representatives access to the wells for the purpose of obtaining water samples, and to aid the Department, if necessary, in obtaining water from the wells upon reasonable notice.



Commercial Envelope Mfg. Co.
900 Grand Blvd. Deer Park, NY

APPENDIX # A

PAGE 1 OF 1

ORDER ON CONSENT #

REFERENCE NO. 2

NUS CORPORATION

TELECON NOTE

CONTROL NO:	DATE: 6/24/87	TIME: 1340 HRS

DISTRIBUTION:

COMMERCIAL ENVELOPE MFG. CO. INC. (COM)
TDD # 02-8704-03

BETWEEN: JAMES DESALE	OF: TOWN OF BABYLON HIGHWAY DEPT	PHONE: (516) 422-1211

AND: R. LEONARD

DISCUSSION: (NUS)

RE: STORM DRAIN DESTINATION FROM COM

INDUSTRIAL PROPERTY DRAINAGE CANNOT ENTER TOWN STORM SEWER SYSTEM. OWNERS MUST CONTAIN THEIR OWN RUN-OFF. WATER PROBABLY ENTERS A LEACHING POOL ON SITE. OWNER SHOULD KNOW DESTINATION OF STROM DRAIN.

ACTION ITEMS:

NUS 067 REVISED 0581

REFERENCE NO. 27

CE MARKS

DESCRIPTION OF LOCATION

isk set in top of concrete post; 91 feet south
th corner of the Deer Park railroad station,
of a white post.

disk set in a drill hole of a garage floor at 5
Road, on the northeast corner of Com-
and Eddie Avenue.

lisk set in top of the south end of the east
rapet wall of bridge over Southern State
6 feet east of the centerline of Deer Park

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
BABYLON, NEW YORK
SUFFOLK COUNTY

PANEL 25 OF 50
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
360790 0025 B

EFFECTIVE DATE:
JULY 16, 1979

Federal Emergency Management Agency

CORPORATE LIMITS

KEY TO MAP

500-Year Flood Boundary	
100-Year Flood Boundary	
Zone Designations* With Date of Identification e.g., 12/2/74	
100-Year Flood Boundary	
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7×
Zone D Boundary	
River Mile	•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not neces-

Certa[illegible]
may be pr[illegible]

This map is for flood insurance purpo[illegible] sarily show all areas subject to flooding in the commu[illegible] all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:

JULY 26, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:

JANUARY 30, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:

JULY 16, 1979

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

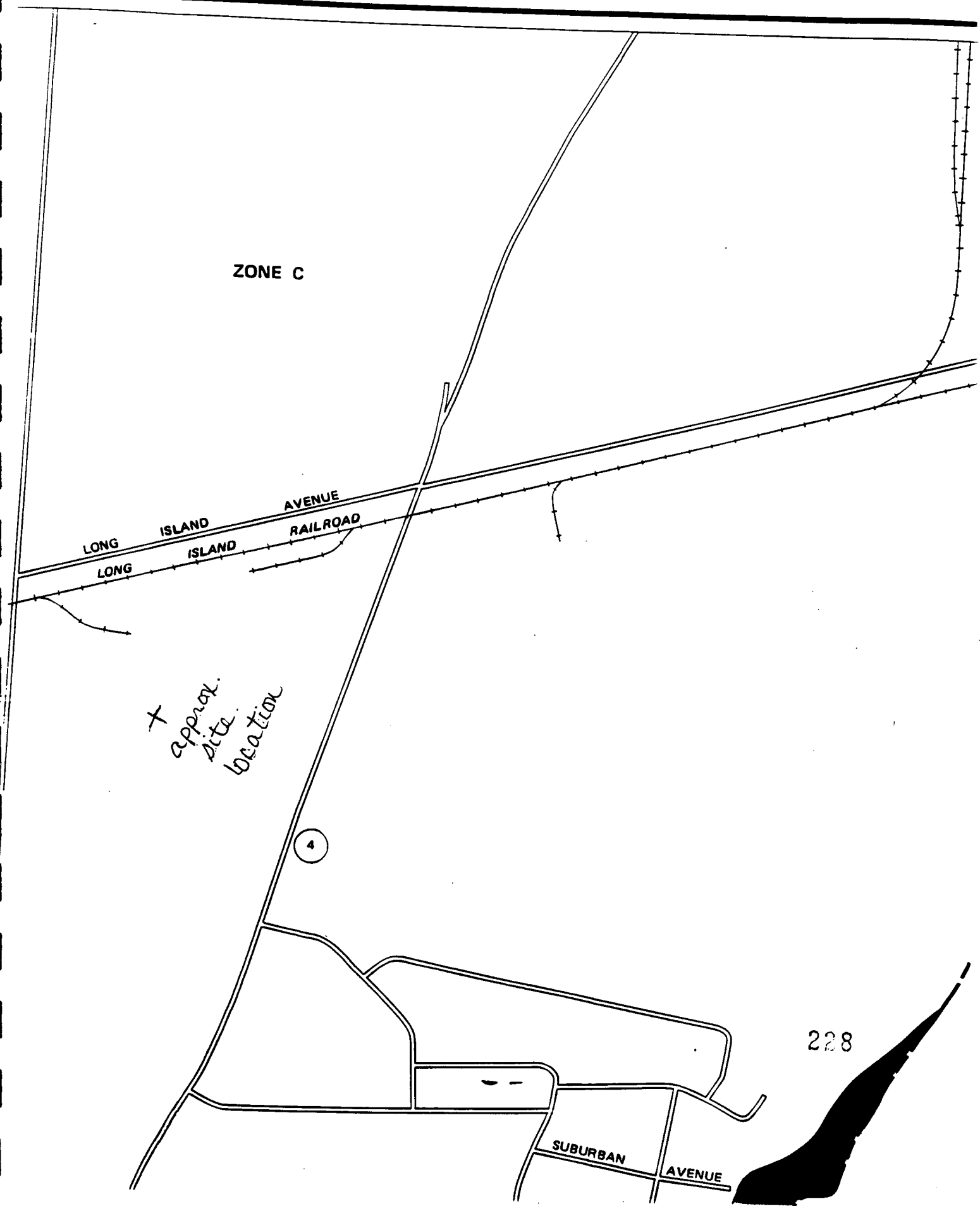
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

APPROXIMATE SCALE

800 0 800 FEET

227

NATIONAL FLOOD INSURANCE PROGRAM


ZONE C
LONG ISLAND AVENUE
LONG ISLAND RAILROAD
+ approx. site location
4
228
SUBURBAN AVENUE

REFERENCE NO. 2

LEGEND

Prime farmland
Total acres 69,180

Unique farmland, other than prime
Total acres 51,013

Additional farmland of statewide importance
Total acres 54,071

Additional farmland of local importance
Total acres–none reported

Other land

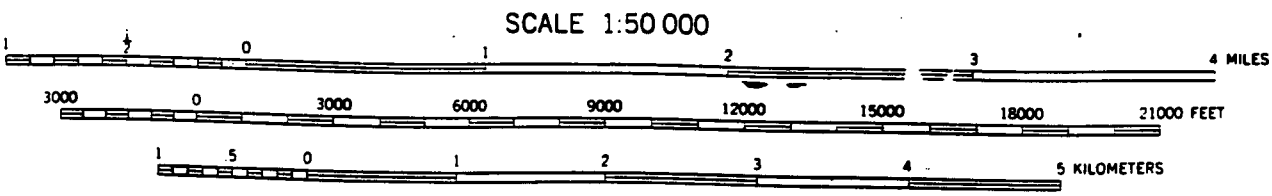
Water areas

Approximate urban and built-up areas

Areas represented are greater than 10 acres in size

Because of the limitations of map scale, some delineations may contain inclusions of soils that do not meet the definition of that category.

SCALE 1:50 000



IMPORTANT FARMLANDS

REFERENCE NO

'ED

12:01

E
EALTH

Commercial Envelope

INDIVIDUAL	
AUG OBRIG	investigates spill at Commercial. sample of puddle 6.9 lead + ~~sample~~ from pipe [redacted] (.05 mg/L is limit allowed)
Perrella	letter requiring spill clean up by scavenger
Sample analysis	Newman labs. partial sample analysis of waste water
"	" " lead analysis 1 mg/L
"Informal" Hearing	C.O. was not signed until 6/30/81 + $500 paid
Santino	request to Chromadyne bids for more detailed analysis finds
	Formal hearing scheduled for 6/16/81 but cancelled because C.O. was signed
Paul Creditor	letter to Pim apologizing for delay in "analysis PLAN" for dust pile + requesting list of tank testers. LIST WAS sent
Creditor	letter to Santino requesting info on art 12 storage + notification that C.O. will be signed
Newman	letter to Pim detailing the metals to be sampled
Creditor	letter to Pim requesting acknowledgement in writing of "Plan submitted" +
Creditor	letter to Santino again requesting art 12 guidelines
"	memo from Creditor thanking Santino "for the papers forwarded"
Pim	letter to Newman approving + modifying plan to sample
Pim	letter to Creditor enclosing list of tank testing Companies
	Formal Hearing scheduled but cancelled
	Consent order signed by Commercial
Creditor	letter to Gilbert - returning signed CO with request to amend date of Para #1, 5 + 6
Creditor	letter to Gilbert requesting return of C.O. signed by Commissioner
Gilbert	letter to Commercial returning copy of signed C.O.

~~Formal Hearing~~ was held on 4/1/82

Paul Creditor appeared for client

50-1063
214

233

REFERENCE NO. 21

eder associates
consulting engineers, p.c.

April 14, 1986
File #525-1

Mr. Vincent J. Frisina, P.E.
Public Health Engineer
Suffolk County Department
of Health Services
Hazardous Materials Management
15 Horseblock Place
Farmingville, New York 11738

Re: Commercial Envelope Manufacturing Company, Inc.
Deer Park, New York

Dear Mr. Frisina:

We are pleased to submit on behalf of Commercial Envelope Manufacturing Company, Inc. our Engineering Report entitled "Proposed Facility Modifications for Compliance with Article 12 of the Suffolk County Sanitary Code" for your review.

This report in conjunction with Drawings No. 1-4, Revision No. 1, entitled "Modifications for Chemical Storage Areas" presents the proposed modifications at Commercial Envelope for achieving compliance with Article 12 of the Suffolk County Sanitary Code. Comments by the Suffolk County Department of Health Services, submitted to Eder Associates in a letter dated March 24, 1986, have been addressed. We are available to meet with you and discuss this project should you wish to do so.

If you have any questions, please do not hesitate to contact our office.

Very truly yours,

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

Gary A. Rozmus
Vice President

GAR/tg
Enc.

85 FOREST AVENUE • LOCUST VALLEY, NEW YORK 11560 • (516) 671-8440
LEONARD J. EDER, P. E. • FREDERICK H. INYARD, P. E. • STEPHEN J. OSMUNDSEN, P. E. • GARY A. ROZMUS, P. E.
JOHN McGUIRE, P. E. • JORGE MOLINA, ING. • WILLIAM J. CUNNINGHAM, P. E. • JOSEPH B. HELLMANN, P. E.

COMMERCIAL ENVELOPE MANUFACTURING COMPANY, INC.

DEER PARK, NEW YORK

Hm86-13R Review Copy

PROPOSED FACILITY MODIFICATIONS FOR COMPLIANCE WITH ARTICLE 12 OF THE SUFFOLK COUNTY SANITARY CODE

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT SECTION

APPROVAL TO CONSTRUCT SCDHS JOB NO. Hm86-13R

These plans and specifications have been reviewed and found to be in [illegible] with Suffolk County Sanitary Code [illegible] submitted by [illegible] This approval to construct expires on 9/15/86

EXPIRATION DATE

PROJECT #525-1

APRIL 1986

5/7/86
APPROVAL DATE

V. Fresina
REVIEW ENGINEER

RECEIVED
APR 16 1986
S.C. DEPT. OF HEALTH SERVICES

EDER ASSOCIATES
CONSULTING ENGINEERS, P.C.
85 Forest Avenue
Locust Valley, New York 11560

TABLE OF CONTENTS

		Page
	LETTER OF TRANSMITTAL	
1.0	INTRODUCTION	1
2.0	GENERAL REQUIREMENTS FOR ARTICLE 12	2
	2.1 Indoor Storage Tanks	2
	2.2 Indoor and Outdoor Portable Container Storage	2
	2.3 Handling of Portable Containers	3
	2.4 Reporting and Recordkeeping	3
	2.5 Labeling and Posting	3
3.0	PROPOSED MODIFICATIONS FOR ARTICLE 12 COMPLIANCE	4
	3.1 Bermed Storage Area	4
	3.2 Pump Room	5
	3.3 Solvent Shed	6
	3.4 Plate Making and Developing Room	6
	3.5 Wastewater Holding Tank	8
	3.6 Slop Sinks and Ink Pot Washer	8
	3.7 Miscellaneous Housekeeping Supplies	9

1.0 INTRODUCTION

Commercial Envelope Manufacturing Company, Inc. (CEM) produces and prints envelopes at its facility in Deer Park, New York.

CEM currently stores various inks, glues, solvents, detergents and oils. Inks, solvents, detergents and oils are contained in 55-gallon drums. The glues are contained in 55-gallon drums, 250-gallon containers (totes) and two aboveground indoor tanks. These materials require storage in accordance with Suffolk County Sanitary Code, Article 12 which governs the storage of toxic or hazardous materials. A brief description of the Article 12 requirements is given in Section 2 of this report.

CEM stores raw material and finished paper products at the facility. The storage of these products is not regulated by Article 12. Small quantities of housekeeping supplies are also stored at the facility. Modifications for storage of housekeeping supplies are not proposed in this report.

In the manufacturing process of printing envelopes, wastewater is generated at the CEM facility. The wastewater is stored in an aboveground indoor holding tank prior to on-site incineration. The storage of this wastewater is governed by Article 12.

This report proposes modifications to the existing plant so that CEM is in compliance with Article 12. The proposed modifications are presented in Drawings 1, 2, 3 and 4 which accompany this report.

2.0 GENERAL REQUIREMENTS FOR ARTICLE 12

The purpose of Article 12 of the Suffolk County Sanitary Code is to protect the sole-source water supply aquifer from contamination by hazardous or toxic materials. With this intent, the general requirement of Article 12 calls for double containment of hazardous or toxic materials. This requirement applies to materials stored or used above or below ground.

The following subsections provide a general overview of the various forms of hazardous or toxic material storage and the corresponding Article 12 compliance requirements.

2.1 Indoor Storage Tanks

Indoor storage includes all tanks, vessels and interconnecting piping which contain hazardous or toxic materials. Process, rinse, dip and wastewater tanks are included as storage tanks. Also included are portable tanks with a capacity in excess of 80 gallons. All indoor storage tanks must be provided with impervious, secondary containment. The minimum volume of this containment must be 110% of the entire volume to be contained. An additional requirement for indoor storage is that open tanks, located in sprinkled areas of the facility, be provided with automatic covers or that sprinkler head deflectors be installed to prevent tank overflow in the event of sprinkler operation.

2.2 Indoor and Outdoor Portable Container Storage

All portable containers containing hazardous or toxic materials must be provided with impervious secondary containment. The minimum volume of this containment must be 30% of the volume to be stored. Portable containers must be protected from vandalism, unauthorized access and physical damage. Containers stored outdoors must be protected from the weather.

2.3 Handling of Portable Containers

Portable containers must not be stacked more than two (2) high unless on approved storage racks. Containers must be visible for inspection from all sides and must be recorded on inventory records. These records must indicate deliveries, consumption, sale and final disposal of all hazardous or toxic materials. The records must be maintained for a period of five (5) years from the date of the last entry.

2.4 Reporting and Recordkeeping

In the event of a hazardous or toxic material spill, leak or unauthorized discharge, the Commissioner of Suffolk County Department of Health Services must be notified within two hours of discovery of the discharge. CEM must establish a recordkeeping system which indicates: (a) the type and quantity of hazardous or toxic materials in storage or transfer; (b) the transporter, including name, vehicle license number and registration number; and (c) the destination of the materials. These records must be maintained for a period of five (5) years from the date of the last entry and must be available to the Commissioner of the Suffolk County Department of Health Services upon request.

2.5 Labeling and Posting

Labels, clearly identifying the specific contents, must be affixed to all portable containers, indoor or outdoor aboveground tanks and process piping of hazardous or toxic materials. In addition, a warning notice must be posted in areas where toxic or hazardous materials are stored or used. This notice must indicate the quantity and type of materials stored, dates of receipt or removal of materials, date upon which each period of accumulation began, and relevant safety and emergency information. In tank storage areas, a listing of tank inspections, tests, repairs and cleanings must be posted along with these relevant dates.

3.0 PROPOSED MODIFICATIONS FOR ARTICLE 12 COMPLIANCE

A plant survey was conducted to determine plant modifications necessary to comply with Article 12, Suffolk County Sanitary Code. The following sections describe the proposed modifications.

3.1 Bermed Storage Area

It is proposed that a storage area be constructed as shown in Drawing 3. This area is designed to provide approximately 4350 gallons of secondary containment with a 12 inch high curb. According to the Deer Park Fire Department (DPFD), the emergency response time to a fire at CEM is about 5 minutes. Upon arrival at the facility, the DPFD would immediately shut off the sprinkler system. A sprinkler discharge of 0.3 gpm/sf was assumed in calculating the containment volume. The storage area is designed to contain the following quantities of raw materials plus a 5 minute sprinkler water discharge:

Number of Containers	Container Type
36	55-gallon drums
10	250-gallon totes

The present storage requirement for CEM is as follows:

Number of Containers	Container Type
18	55-gallon drums
6	250-gallon totes

The storage area was designed to provide sufficient capacity for future storage requirements.

The concrete floor slab within the berm, inside and top surfaces of the berm will be coated with an epoxy, chemical resistant coating.

A chamfer of non-shrink grout will be constructed at the joint between the curb and concrete floor.

3.2 Pump Room

It is proposed that the pump room be modified to comply with Article 12 as shown in Drawing 4. This room would provide approximately 17,350 gallons of secondary containment. The pump room currently houses two glue storage tanks; a 4700 gallon and 1600 gallon tank. This room will also be used to store 55-gallon ink and glue drums and 250-gallon glue totes. Assuming a DPFD response time of 5 minutes and a sprinkler discharge of 0.3 gpm/sf, the maximum quantity of storage in this area will be:

Number of Containers	Container Type
45	55-gallon drums
6	250-gallon totes
1	4700-gallon tank
1	1600-gallon tank

A 12 inch high concrete curb, as shown in Drawing 4, will be constructed around the concrete cooling water sump and in front of the two exit doorways (to the outside of the plant) and the overhead door. A concrete ramp will be constructed in the double doorway leading into the plant manufacturing area.

The fill pipe end connections to the glue tanks are currently located outside the pump room building. These end connections will be relocated inside the building, so that if any spills of glue did occur during glue transfer operations they would be contained in the pump room.

Each glue tank is equipped with a sight gage. During glue tank filling operations, the glue level in the tank will be observed in the sight gage. Plant personnel will use the sight gage to ensure that the tanks are not overfilled.

The entire concrete pump room floor, the inside and top surfaces of the curb, the ramp and pump room walls will be coated with an epoxy, chemical resistant coating to a height of 12 inches above the floor. A chamfer of non-shrink grout will be constructed at the joints between the floor and the walls and the floor and the curb.

3.3 Solvent Shed

It is proposed to modify the solvent shed, as shown in Drawing 4, to comply with Article 12. Assuming a response time of 5 minutes for the DPFD and a sprinkler discharge of 0.3 gpm/sf, the maximum quantity of storage in this area will be:

Number of Containers	Container Type
15	55-gallon drums

The existing air vents located at the bottom of the solvent shed walls will be relocated to a height of 1'-6" above the concrete floor. The existing air vents will be sealed with a non-shrinking grout. A berm, 6 inches high shall be constructed at the overhead door entrance to the shed. The concrete floor, the inside and top surfaces of the curb and the walls to a height of 6 inches above the floor will be coated with an epoxy, chemical resistant coating. A chamfer of non-shrink grout will be constructed at the joints between the walls and the floor and the curb and the floor.

3.4 Plate Making and Developing Room

It is proposed that the Plate Making Room be modified, as shown in Drawing 4, to comply with Article 12. The Plate Making Room houses the following equipment:

	Equipment	Volume Stored
1.	Two Plate Making Machines	70 gallons each
2.	Post Exposure Machine	10 gallons
3.	3M Plate Maker	5-1/2 gallons

Assuming a DPFD response time of 5 minutes and a sprinkler discharge rate of 0.3 gpm/sf, the Plate Making Room will be modified to contain 1700 gallons. A 3 inch high by 12 inch wide non-shrink grout stop will be constructed at the doorway threshold. The concrete floor, sump and the wall to a height of 3 inches above the floor will be coated with an epoxy, chemical resistant coating. A grout chamfer will be constructed at the joint between the walls and the floor.

The existing underground 1-1/2" diameter PVC piping shall be rinsed clean with water, cut and capped. New drain pipes will be installed between equipment and the collection sump. The new drain pipes will be located above the floor slab.

Solenoid valves are presently installed on the drain piping of the plate making machines located on the east side of the room. Existing piping between the solenoid valves and the collection sump shall be disconnected. New piping shall be connected between the valves and the existing overhead piping to the wastewater holding tank. The solenoid valves will connected to the high level alarm circuit in the wastewater incinerator control panel.

After the sump has been coated, a polypropylene tank will be installed in the sump. This will provide double-wall containment for the sump. A liquid sensor and audio/visual alarm system will be installed in the sump for leak detection.

The wastewater collected in the sump is pumped to the 2,000 gallon holding tank. The piping to the tank will be retrofitted with a solenoid valve, interlocked to the tank high level alarm, that will stop the waste flow to the holding tank, when the tank is full.

The Developing Room houses the Rapid Access Film Developer which contains approximately 10 gallons. Due to the small quantity of material stored in this room, no secondary containment is provided. This area has a concrete floor without floor drains. If a spill did occur, it would remain in this area and could be cleaned up quickly.

3.5 Wastewater Holding Tank

The existing 2000 gallon wastewater holding tank is presently housed within a concrete berm. The inside dimensions of the berm are 32 ft x 7 ft - 6 inch x 1 ft - 6 inch high. The existing secondary containment volume is 2700 gallons. The tank is equipped with an audio/visual high alarm system to avoid overfilling.

Wastewater is pumped to the holding tank. The piping to the tank will be retrofitted with solenoid valves, interlocked to the tank high level alarm, that will stop the waste flow to the holding tank when the tank is full.

The plant exterior wall serves as one wall of the secondary containment system. Any penetrations or cracks in this wall to a height of 1 ft - 6 inch above the plant floor will be sealed with a non-shrink grout.

The concrete floor area within this area, inside and top surfaces of the berm and the wall within the bermed area to a height of 1 ft - 6 inch above the floor will be coated with an epoxy, chemical resistant coating. A chamfer of non-shrink grout will be constructed at the joints between the berm and the floor and the wall and floor.

3.6 Slop Sinks and Ink Pot Washer

The slop sinks and ink pot washer at the CEM facility are used to wash printing equipment. The wash water generated in these sinks is pumped to the 2,000 gallon wastewater holding tank. The sinks and washer are located in the central portion of the CEM plant, remote to building entrances.

The existing wash water transfer piping will be retrofitted with solenoid valves, interlocked to the tank high level alarm, that will stop the flow of wastewater to the holding tank when the tank is full.

The concrete floor slab would not be chemically attacked by the materials used in the pot washer or the shop sinks. If a spill were to occur, it would be limited to the area near the sinks and washer. The spill would be contained and collected for proper disposal through the use of absorbent material. Secondary containment of the washer and slop sinks is not recommended.

3.7 Miscellaneous Housekeeping Supplies

The CEM facility utilizes miscellaneous small quantities of general housekeeping supplies. The materials are not stored near floor drains and if a spill were to occur the area affected would be limited to the area of the spill. Spills would be collected with spill absorbent material and properly disposed of. No secondary containment for housekeeping supplies is recommended.

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES

— APPLICATION —

PERMIT TO CONSTRUCT

ABOVE/UNDERGROUND TOXIC/HAZARDOUS LIQUID STORAGE TANK SYSTEM AND DRUM STORAGE FACILITIES

PROPOSED STORAGE SYSTEM IS:

- [X] ABOVE GROUND TANK
- [X] DRUM/BULK STORAGE
- [ ] UNDERGROUND TANK
- [ ] OTHER (SPECIFY - _____)

OFFICAL USE ONLY

S.C.D.H.S. JOB Nº. _____
DATE RCV'D _____
REQU'D FEE _____
DATE FWD. _____
I.D. CODE [ ][ ][ ][ ]

FACILITY NAME Commercial Envelope Manufacturing Company, Inc.

ADDRESS OF PROJECT 900 Grand Boulevard
(NO.) (STREET)
Deer Park New York 11729
(CITY) (STATE) (ZIP)

TAX MAP Nº SECTION 067 BLOCK LOT 01

FACILITY OWNER Town of Babylon

OWNER'S ADDRESS 200 East Sunrise Highway
(NO.) (STREET)
North Lindenhurst New York 11757
(CITY) (STATE) (ZIP)

PHONE Nº (516) 957-3005

PERSON TO CONTACT FOR THIS PROJECT Alan Krystal

ADDRESS IF DIFFERENT FROM FACILITY OWNER 900 Grand Boulevard
(NO.) (STREET)
Deer Park New York 11729
(CITY) (STATE) (ZIP)

PHONE Nº (516) 242-2500

BRIEFLY DESCRIBE PROJECT:

Construction of bermed storage area and modifications to existing facility areas to provide secondary spill containment in compliance with Article 12 of the Suffolk County Sanitary Code.

I CERTIFY THAT ALL INFORMATION SUPPLIED HEREON AND ATTACHED HERETO IS TRUE TO THE BEST OF MY KNOWLEDGE.

APPLICANTS SIGNATURE _____ PRINT NAME _____ DATE _____

OFFICAL USE ONLY

THIS APPLICATION WITH ATTACHED PLANS AND REPORTS HAS BEEN REVIEWED AND APPROVED FOR CONSTRUCTIC AND THIS PERMIT IS NOW VALID FOR A PERIOD OF 1 YEAR.

SIGNATURE OF APPROVING ENGINEER _____ DATE _____

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES

— APPLICATION —

PERMIT TO CONSTRUCT

ABOVE/UNDERGROUND TOXIC/HAZARDOUS LIQUID STORAGE TANK SYSTEM AND DRUM STORAGE FACILITIES

PROPOSED STORAGE SYSTEM IS:

- [X] ABOVE GROUND TANK
- [X] DRUM/BULK STORAGE
- [ ] UNDERGROUND TANK
- [ ] OTHER (SPECIFY - _____)

OFFICAL USE ONLY

S.C.D.H.S. JOB Nº. _____
DATE RCV'D _____
REQU'D FEE _____
DATE FWD. _____
I.D. CODE [ ][ ][ ][ ][ ]

FACILITY NAME Commercial Envelope Manufacturing Company, Inc.

ADDRESS OF PROJECT 900 Grand Boulevard
(NO.) (STREET)
Deer Park New York 11729
(CITY) (STATE) (ZIP)

TAX MAP Nº

SECTION	BLOCK	LOT
067		01

FACILITY OWNER Town of Babylon

OWNER'S ADDRESS 200 East Sunrise Highway
(NO.) (STREET)
North Lindenhurst New York 11757
(CITY) (STATE) (ZIP)

PHONE Nº (516) 957-3005

PERSON TO CONTACT FOR THIS PROJECT Alan Krystal

ADDRESS IF DIFFERENT FROM FACILITY OWNER 900 Grand Boulevard
(NO.) (STREET)
Deer Park New York 11729
(CITY) (STATE) (ZIP)

PHONE Nº (516) 242-2500

BRIEFLY DESCRIBE PROJECT:

Construction of bermed storage area and modifications to existing facility areas to provide secondary spill containment in compliance with Article 12 of the Suffolk County Sanitary Code.

I CERTIFY THAT ALL INFORMATION SUPPLIED HEREON AND ATTACHED HERETO IS TRUE TO THE BEST OF MY KNOWLEDGE.

Alan J Kristel — APPLICANTS SIGNATURE
ALAN KRISTEL — PRINT NAME
2/24/86 — DATE

OFFICAL USE ONLY

THIS APPLICATION WITH ATTACHED PLANS AND REPORTS HAS BEEN REVIEWED AND APPROVED FOR CONSTRUCTION AND THIS PERMIT IS NOW VALID FOR A PERIOD OF 1 YEAR.

SIGNATURE OF APPROVING ENGINEER _____ DATE

UFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
TOXIC LIQUID STORAGE REGISTRATION FORM

Official Use Only

Fac. Ref. No. 1*

Receipt No.

Amt. of Fee

rincipal Property Tax Code

14* District | *15*Section 067 | *16* Block | *17* Lot 01

2*Facility Name Commercial Envelope Manufacturing Co., Inc.	*3* No. *4* Street 900 Grand Boulevard	*5* Comm. Deer Park	*6* State New York	*7* Zip 11729	Phone No. (516) 242-2500
2*Facility Owner Town of Babylon	*33*No. *34*Street 200 E. Sunrise Highway	*35*Comm. N. Lindenhurst	*36*State New York	*37*Zip 11757	Phone No. (516) 957-3005
2*Facility Operator Commercial Envelope Manufacturing Co., Inc.	*43*No. *44*Street 900 Grand Boulevard	*45*Comm. Deer Park	*46*State New York	*47*Zip 11729	Phone No. (516) 242-2500
2*Land Owner Town of Babylon	*53*No. *54*Street 200 E. Sunrise Highway	*55*Comm. N. Lindenhurst	*56*State New York	*57*Zip 11757	Phone No. (516) 957-3005
2*Tank Owner Town of Babylon	*63*No. *64*Street 200 E. Sunrise Highway	*65*Comm. N. Lindenhurst	*66*State New York	*67*Zip 11757	Phone No. (516) 957-3005

)*Are chemical drums or containers stored at this site? Yes X No ____

*71*Empty Drums ____ *72*Full or Part Full X *73*Waste Material ____ *74*New Material ____ *75*Average No. Being Stored 48

*76*Type of Materials: New Oil Products X Waste Oil ____ Organic Solvents X Other X

702		703		706	707								715	716	717		718						719		720				721			701
																									DISPENSER				FILL			
ABOVEGROUND	UNDERGROUND	INDOORS	OUTDOORS	CAPACITY (GALLONS)	GASOLINE	NO. 2 FUEL OIL	NO. 6 FUEL OIL	KEROSENE	WASTE OIL	OTHER OIL	ORGANIC SOLVENTS	INDUSTRIAL WASTES	OTHER MATERIALS (SPECIFY)	YEAR INSTALLED AT THIS LOCATION	INSTALLED NEW YES	INSTALLED NEW NO	PLAIN STEEL	FIBERGLASS	BUFFHIDE	STIP-S	DOUBLE WALLED	OTHER	IN USE	ABANDONED	SUBMERSIBLE	SUCTION	GRAVITY	OTHER	PUMPED	GRAVITY	OTHER	OFFICAL USE
	X		X	10,000		X									X		X						X			X			X			
	X		X	10,000	X																		X			X				X		
X		X		4,700									Glue	77		X						X	X			X			X			
X		X		2,000								X		83			X						X			X			X			
X		X		1,600									Glue	77		X						X	X			X			X			
X		X		250									Glue	86								X	X				X				X	
X		X		250									Glue	86								X	X				X				X	
X		X		250									Glue	86								X	X				X				X	

certify that information on this application and all attachments have been reviewed and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate, and complete. I understand that false statements made herein are punishable as a lass A misdemeanor pursuant to Section 210.45 of the Penal Law.

ate / / | Print Name

UFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
TOXIC LIQUID STORAGE REGISTRATION FORM

Official Use Only

Fac. Ref. No. 1* [ ] [ ] [ ] [ ] [ ]

Receipt No. _____

Amt. of Fee _____

rincipal Property Tax Code

14* District [ ] *15*Section 067 . *16* Block . *17* Lot 01 .

2*Facility Name Commercial Envelope Manufacturing Co., Inc.	*3* No. *4* Street 900 Grand Boulevard	*5* Comm. Deer Park	*6* State New York	*7* Zip 11729	Phone No. (516) 242-2500
2*Facility Owner	*33*No. *34*Street	*35*Comm.	*36*State	*37*Zip	Phone No.
2*Facility Operator	*43*No. *44*Street	*45*Comm.	*46*State	*47*Zip	Phone No.
2*Land Owner	*53*No. *54*Street	*55*Comm.	*56*State	*57*Zip	Phone No.
2*Tank Owner	*63*No. *64*Street	*65*Comm.	*66*State	*67*Zip	Phone No.

)*Are chemical drums or containers stored at this site? Yes X No ____

*71*Empty Drums ____ *72*Full or Part Full X *73*Waste Material ____ *74*New Material ____ *75*Average No. Being Stored 48

*76*Type of Materials: New Oil Products X Waste Oil ____ Organic Solvents X Other X

702		703		706	707								715	716	717		718						719		720				721			701
																									DISPENSER				FILL			
ABOVEGROUND	UNDERGROUND	INDOORS	OUTDOORS	CAPACITY (GALLONS)	GASOLINE	NO. 2 FUEL OIL	NO. 6 FUEL OIL	KEROSENE	WASTE OIL	OTHER OIL	ORGANIC SOLVENTS	INDUSTRIAL WASTES	OTHER MATERIALS (SPECIFY)	YEAR INSTALLED AT THIS LOCATION	INSTALLED NEW YES	INSTALLED NEW NO	PLAIN STEEL	FIBERGLASS	BUFFHIDE	STIP-S	DOUBLE WALLED	OTHER	IN USE	ABANDONED	SUBMERSIBLE	SUCTION	GRAVITY	OTHER	PUMPED	GRAVITY	OTHER	OFFICAL USE
X		X		250									Glue	86								X	X				X				X	
X		X		250									Glue	86								X	X				X				X	
X		X		250									Glue	86								X	X				X				X	
X		X		400								X		77		X	X						X			X				X		
	X		X	5,000		X								84									X			X				X		
	X		X									X					X							X								
	X		X									X					X							X								
	X		X									X					X							X								

certify that information on this application and all attachments have been reviewed and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate, and complete. I understand that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law.

ate [illegible] Print Name [illegible]

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
TOXIC LIQUID STORAGE REGISTRATION FORM

Official Use Only

Fac. Ref. No. 1*

Receipt No.

Amt. of Fee

Principal Property Tax Code

14* District | *15*Section 067 | *16* Block | *17* Lot 01

2*Facility Name	*3* No. *4* Street	*5* Comm.	*6* State	*7* Zip	Phone No.
Commercial Envelope Manufacturing Co., Inc.	900 Grand Boulevard	Deer Park	New York	11729	(516) 242-2500
32*Facility Owner	*33*No. *34*Street	*35*Comm.	*36*State	*37*Zip	Phone No.
42*Facility Operator	*43*No. *44*Street	*45*Comm.	*46*State	*47*Zip	Phone No.
52*Land Owner	*53*No. *54*Street	*55*Comm.	*56*State	*57*Zip	Phone No.
62*Tank Owner	*63*No. *64*Street	*65*Comm.	*66*State	*67*Zip	Phone No.

70*Are chemical drums or containers stored at this site? Yes X No ____

*71*Empty Drums ____ *72*Full or Part Full X *73*Waste Material ____ *74*New Material ____ *75*Average No. Being Stored 48

*76*Type of Materials: New Oil Products X Waste Oil ____ Organic Solvents X Other X

702		703		706	707							715	716	717		718						719		720				721			701
																								DISPENSER				FILL			
TANK NO.	ABOVEGROUND	UNDERGROUND	INDOORS	OUTDOORS	CAPACITY (GALLONS)	GASOLINE	NO. 2 FUEL OIL	NO. 6 FUEL OIL	KEROSENE	WASTE OIL	OTHER OIL	ORGANIC SOLVENTS	INDUSTRIAL WASTES	OTHER MATERIALS (SPECIFY)	YEAR INSTALLED AT THIS LOCATION	INSTALLED NEW YES	INSTALLED NEW NO	PLAIN STEEL	FIBERGLASS	BUFFHIDE	STIP-8	DOUBLE WALLED	OTHER	IN USE	ABANDONED	SUBMERSIBLE	SUCTION	GRAVITY	OTHER	PUMPED	GRAVITY	OTHER	OFFICAL USE
7			X		420									Drum Storage	86																		
8			X		17,350									Drum Storage	86																		
9			X		4,350									Drum Storage	86																		

I certify that information on this application and all attachments have been reviewed and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate, and complete. I understand that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

eder associates
consulting engineers, p.c.

April 14, 1986
File #525-1

Mr. Vincent J. Frisina, P.E.
Public Health Engineer
Suffolk County Department
of Health Services
Hazardous Materials Management
15 Horseblock Place
Farmingville, New York 11738

Re: Commercial Envelope Manufacturing Company, Inc.
Deer Park, New York

Dear Mr. Frisina:

Please find enclosed the following documents for your review:

1. Engineering Report entitled "Proposed Facility Modifications for Compliance With Article 12 of the Suffolk County Sanitary Code", (4 copies); and

2. Drawings No. 1 - 4, Rev. No.1, entitled Modifications for Chemical Storage Areas (4 copies).

Comments made by the Suffolk County Department of Health Services submitted to our office in a letter dated March 24, 1986 are addressed in the enclosed documents.

If you have any questions, please feel free to contact our office.

Very truly yours,

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

Nicholas A. Andrianas

Nicholas A. Andrianas

NAA/td

Enc.

cc: S. Cohen

RECEIVED
APR 16 1986
S.C. DEPT. OF
HEALTH SERVICES

85 FOREST AVENUE • LOCUST VALLEY, NEW YORK 11560 • (516) 671-8440
LEONARD J. EDER, P. E. • FREDERICK H. INYARD, P. E. • STEPHEN J. OSMUNDSEN, P. E. • GARY A. ROZMUS, P. E.
JOHN McGUIRE, P. E. • JORGE MOLINA, ING. • WILLIAM J. CUNNINGHAM, P. E. • JOSEPH B. HELLMANN, P. E.

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES

— APPLICATION —

PERMIT TO CONSTRUCT

ABOVE/UNDERGROUND TOXIC/HAZARDOUS LIQUID STORAGE TANK SYSTEM AND DRUM STORAGE FACILITIES

PROPOSED STORAGE SYSTEM IS:

- [X] ABOVE GROUND TANK
- [X] DRUM/BULK STORAGE
- [ ] UNDERGROUND TANK
- [ ] OTHER (SPECIFY - _____)

OFFICAL USE ONLY

S.C.D.H.S. JOB Nº. Hm86-13R
DATE RCV'D 2/24/86
REQU'D FEE 575
DATE FWD.
I.D. CODE 0 1 6 5 8

FACILITY NAME Commercial Envelope Manufacturing Company, Inc.

ADDRESS OF PROJECT 900 (NO.) Grand Boulevard (STREET)
Deer Park (CITY) New York (STATE) 11729 (ZIP)

TAX MAP Nº

SECTION	BLOCK	LOT
067		01

FACILITY OWNER Town of Babylon

OWNER'S ADDRESS 200 East Sunrise Highway (NO.) (STREET)
North Lindenhurst (CITY) New York (STATE) 11757 (ZIP)

PHONE Nº (516) 957-3005

PERSON TO CONTACT FOR THIS PROJECT Alan Krystal

ADDRESS IF DIFFERENT FROM FACILITY OWNER 900 Grand Boulevard (NO.) (STREET)
Deer Park (CITY) New York (STATE) 11729 (ZIP)

PHONE Nº (516) 242-2500

BRIEFLY DESCRIBE PROJECT:

Construction of bermed storage area and modifications to existing facility areas to provide secondary spill containment in compliance with Article 12 of the Suffolk County Sanitary Code.

I CERTIFY THAT ALL INFORMATION SUPPLIED HEREON AND ATTACHED HERETO IS TRUE TO THE BEST OF MY KNOWLEDGE.

Alan Krystal — APPLICANTS SIGNATURE
ALAN KRISTEL — PRINT NAME
2/24/86 — DATE

OFFICAL USE ONLY

THIS APPLICATION WITH ATTACHED PLANS AND REPORTS HAS BEEN REVIEWED AND APPROVED FOR CONSTRUCTION AND THIS PERMIT EXPIRES ON 9/15/86

SIGNATURE OF APPROVING ENGINEER N. Freeman DATE 5/7/86

eder associates
consulting engineers, p.c.

April 14, 1986
File #525-1

Mr. Vincent J. Frisina, P.E.
Public Health Engineer
Suffolk County Department
of Health Services
Hazardous Materials Management
15 Horseblock Place
Farmingville, New York 11738

Re: Commercial Envelope Manufacturing Company, Inc.
Deer Park, New York

Dear Mr. Frisina:

Please find enclosed the following documents for your review:

1. Engineering Report entitled "Proposed Facility Modifications for Compliance With Article 12 of the Suffolk County Sanitary Code", (4 copies); and

2. Drawings No. 1 - 4, Rev. No.1, entitled Modifications for Chemical Storage Areas (4 copies).

Comments made by the Suffolk County Department of Health Services submitted to our office in a letter dated March 24, 1986 are addressed in the enclosed documents.

If you have any questions, please feel free to contact our office.

Very truly yours,

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

Nicholas A. Andrianas

Nicholas A. Andrianas

NAA/td

Enc.

cc: S. Cohen

85 FOREST AVENUE • LOCUST VALLEY, NEW YORK 11560 • (516) 671-8440
LEONARD J. EDER, P. E. • FREDERICK H. INYARD, P. E. • STEPHEN J. OSMUNDSEN, P. E. • GARY A. ROZMUS, P. E.

COMMERCIAL ENVELOPE
Manufacturing Co., Inc.
900 Grand Blvd.
Deer Park, L.I., N.Y. 11729

(516) 242-2500

April 15, 1986

RECEIVED
APR 16 1986
S.C. DEPT. OF
HEALTH SERVICES

Mr. Vincent Frisina
Suffolk County Department
Of Health Services
15 Horseblock Place
Farmingville, New York 11738

Dear Mr. Frisina:

Commercial Envelope does not store any toxic or hazardous materials in its 80,000 square foot warehouse (the "New Warehouse"), nor will any such materials be stored in the New Warehouse in the future. Mr. David Obrig, Field Inspector for your department, confirmed the fact that no such materials are being stored by personal inspection this morning. Furthermore, Commercial Envelope represents that no toxic or hazardous waste is being generated, nor will be generated, in the New Warehouse.

I trust that this satisfies the Department of Health Services with respect to the Certificate of Occupancy application by Commercial Envelope.

Very truly yours,

COMMERCIAL ENVELOPE MFG. CO., INC.

Steven Kristel
Vice President

SK:ajb
cc: Mr. Peter Akras
Suffolk County Health Dept.
Riverhead County Center
Riverhead, NY 11901

COMMERCIAL ENVELOPE
Manufacturing Co., Inc.
900 Grand Blvd.
Deer Park, L.I., N.Y. 11729

(516) 242-2500

April 15, 1986

RECEIVED
APR 16 1986
S.C. DEPT. OF
HEALTH SERVICES

Mr. Vincent Frisina
Suffolk County Department
Of Health Services
15 Horseblock Place
Farmingville, New York 11738

Dear Mr. Frisina:

Commercial Envelope does not store any toxic or hazardous materials in its 80,000 square foot warehouse (the "New Warehouse"), nor will any such materials be stored in the New Warehouse in the future. Mr. David Obrig, Field Inspector for your department, confirmed the fact that no such materials are being stored by personal inspection this morning. Furthermore, Commercial Envelope represents that no toxic or hazardous waste is being generated, nor will be generated, in the New Warehouse.

I trust that this satisfies the Department of Health Services with respect to the Certificate of Occupancy application by Commercial Envelope.

Very truly yours,

COMMERCIAL ENVELOPE MFG. CO., INC.

Steven Kristel
Vice President

SK:ajb
cc: Mr. Peter Akras
Suffolk County Health Dept.
Riverhead County Center
Riverhead, NY 11901