

# **ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES**

**PHASE 1 INVESTIGATION**

**EMR Circuits**

**Site No. 152105**

**Town of Smithtown, Suffolk County**

**Final - June 1987**



**RECEIVED**

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BUREAU OF  
HAZARDOUS SITE CONTROL  
DIVISION OF SOLID AND  
HAZARDOUS WASTE

**New York State  
Department of  
Environmental Conservation**

**50 Wolf Road, Albany, New York 12233  
Henry G. Williams, Commissioner**

**Division of Solid and Hazardous Waste  
Norman H. Nosenchuck, P.E., Director**

**Prepared by:**

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

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

**EMR CIRCUITS  
TOWN OF SMITHTOWN, SUFFOLK COUNTY  
NEW YORK I.D. NO. 152105**

Prepared for

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

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September 1986

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## 1. EXECUTIVE SUMMARY

The EMR Circuits site (New York I.D. No. 152105 and EPA No. "New"), the former business location of EMR Circuits where they manufactured circuitboards, is located in an industrial park approximately 2,000 ft north of the Long Island Expressway, on the corner of Kennedy Drive and Marcus Boulevard, in the Town of Smithtown, Suffolk County, New York (Figures 1-1 and 1-2, and Photos 1-1 through 1-8). The property is owned by Grenlein Realty Co., c/o Neil H. Klein and Co., 175 Great Neck Road, Great Neck, New York, and managed by Mr. Ronald Finkelstein of Finkelstein Realty of Mineola, New York. EMR Circuits (Mr. Stewart Wood, President) leased the property and operated a business there from 1981 until 1984. During this time, the EMR Circuits operations were connected to two underground leachpools via a floor drain and piping, into which they repeatedly discharged liquid chemical wastes. The Suffolk County Department of Health Services (SCDHS) began to suspect EMR of illegally discharging hazardous wastes when liquids started bubbling up through the concrete driveway north of the building. In 1981, the SCDHS began sampling the potential industrial discharge locations at EMR. Unacceptable levels of heavy metals were detected in the two leachpools on the north side of the building. As a result, EMR entered into a Consent Order agreeing to cease all discharges until it had applied for and received a SPDES permit. The stipulations of the Consent Order were never met. Further inspections and sampling confirmed that EMR continued discharging hazardous materials to the leachpools. It was discovered that Stewart Wood was dumping chemicals down the floor drain on weekends and then cementing it over, only to chip away the concrete, discharge more chemicals, and then reseal the hole again and again. Criminal proceedings were filed against Mr. Wood. The exact quantity of the illegal discharge is unknown.



During 1983 and 1984, under the supervision of SCDHS, EMR had the contaminated leachpool cleaned out and filled with clean sand, and had the hazardous wastes removed by a licensed scavenger. In 1984, EMR moved from the property. After the company moved, Mr. Finkelstein arranged to have the building ventilated, and to have the walls and floors washed down. The SCDHS consider the facility to be clean (remediated) from the ground surface up, including the location of the former leachpools.

In March 1985, the SCDHS installed a 130-ft monitoring well adjacent to the former leachpools. During installation, the drillers noted a strong chemical odor emanating from the hole. Both soil boring and water samples taken at the time of installation contained elevated levels of metals and organics. No plume exploration has yet been accomplished.

The preliminary HRS scores for this site are as follows: Migration Score ( $S_M$ ) = 27.82 ( $S_{GW}$  = 48.12,  $S_{SW}$  = 0,  $S_a$  = 0), Fire and Explosion Score ( $S_{FE}$  = N/A), and Direct Contact Score ( $S_{DC}$ ) = 0. The site does not pose a significant fire or explosion threat. There is insufficient data available to confirm a release to ground water. Although analytical data are available for contaminated soils and ground water, ambient data are lacking. If ground-water contamination is confirmed, the maximum  $S_M$  would be 37.93. It is recommended that a Phase II study be initiated at the site to evaluate potential ground-water contamination. The proposed Phase II study would include the installation of three test borings/observation wells, and the collection and analysis of ground-water and surficial sediment samples. The estimated cost to complete the Phase II investigation is \$98,420.

Coordinates:  
Latitude: 40°48'44"  
Longitude: 73°14'50"

EMR CIRCUITS INC.

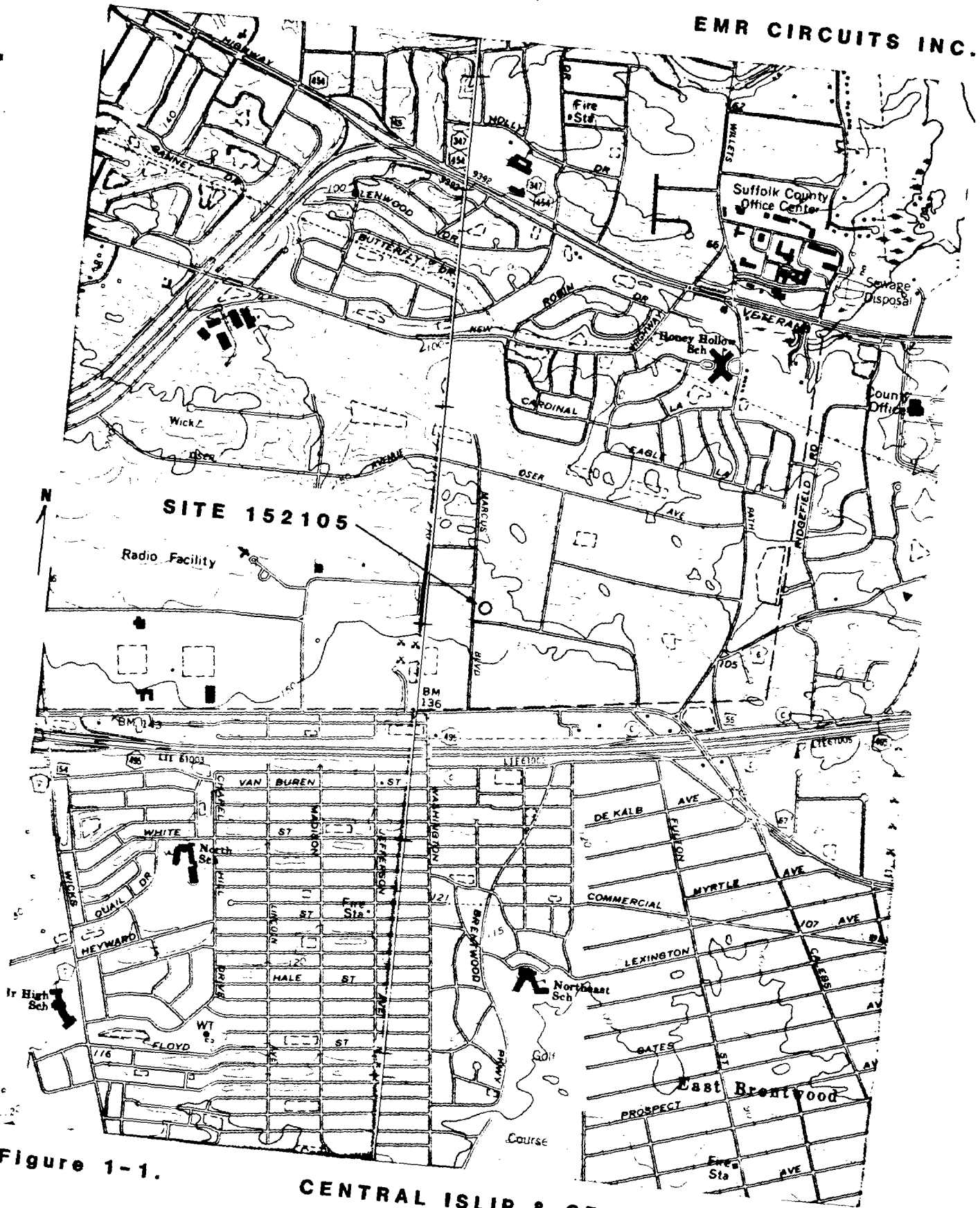


Figure 1-1.

CENTRAL ISLIP & GREENLAWN QUADS.

Scale 1:24,000

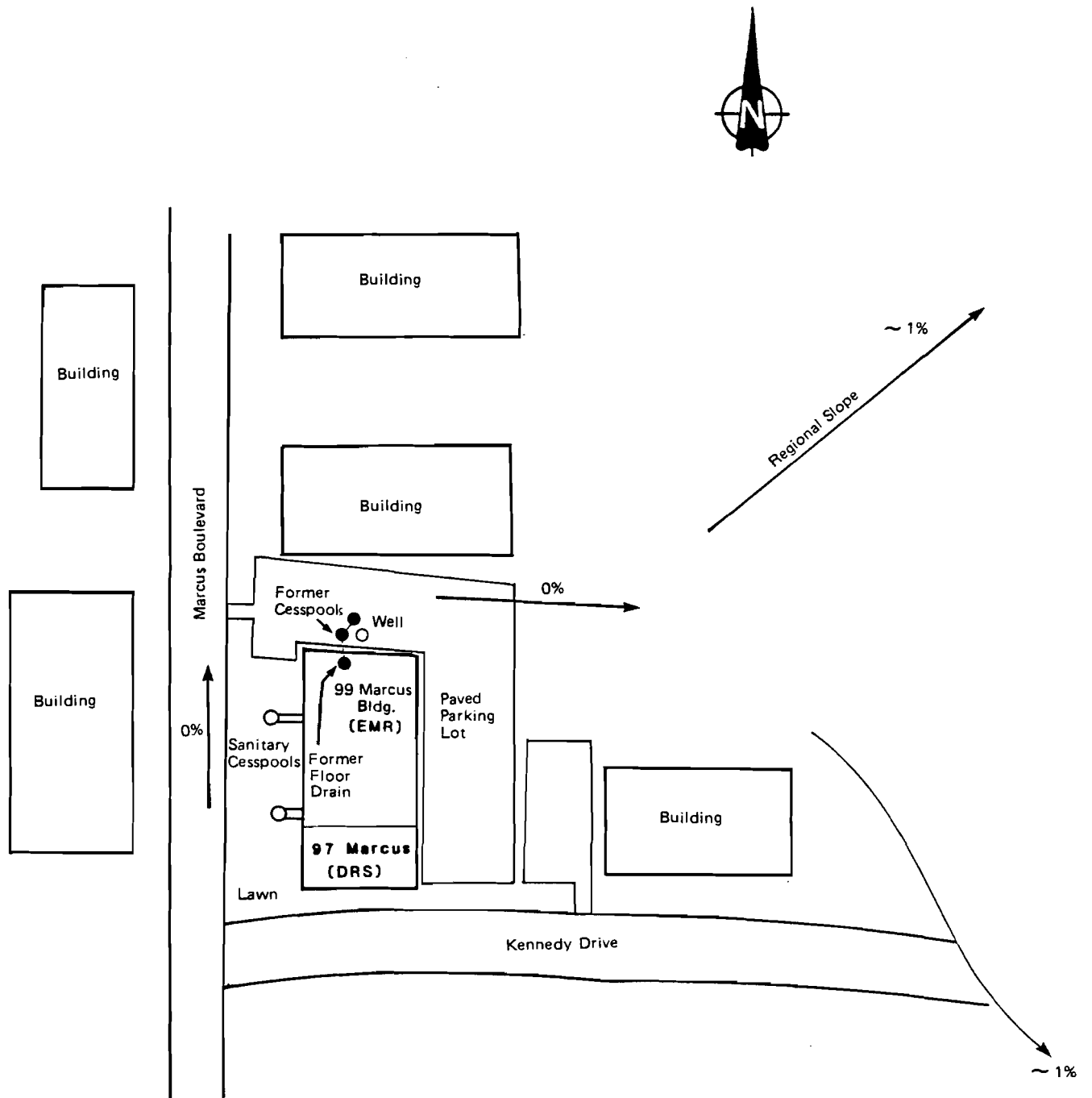
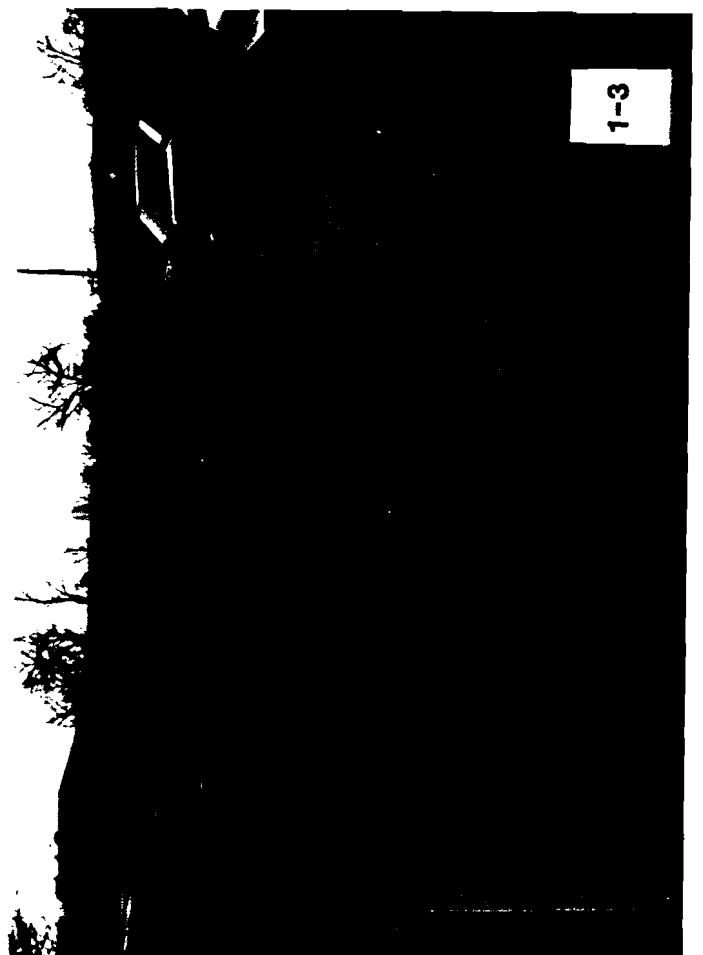
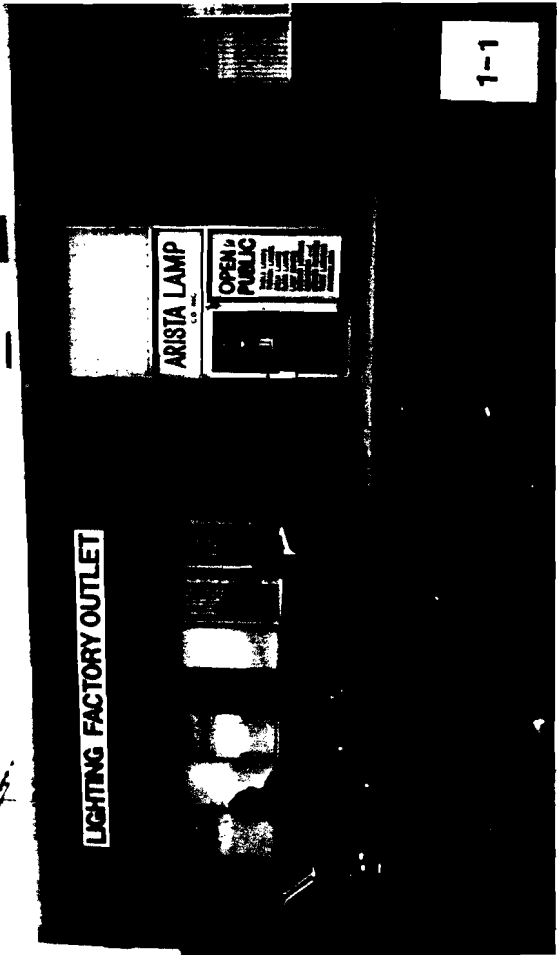
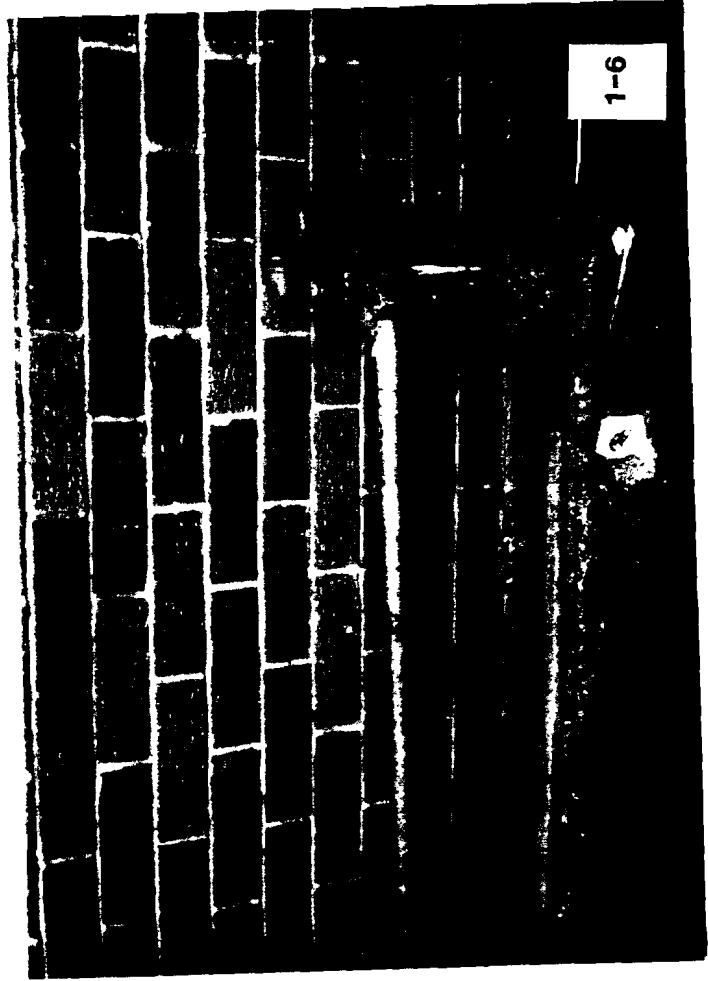


Figure 1-2. Site sketch. EMR Circuits, 23 January 1986. (Not to scale.)





1-5

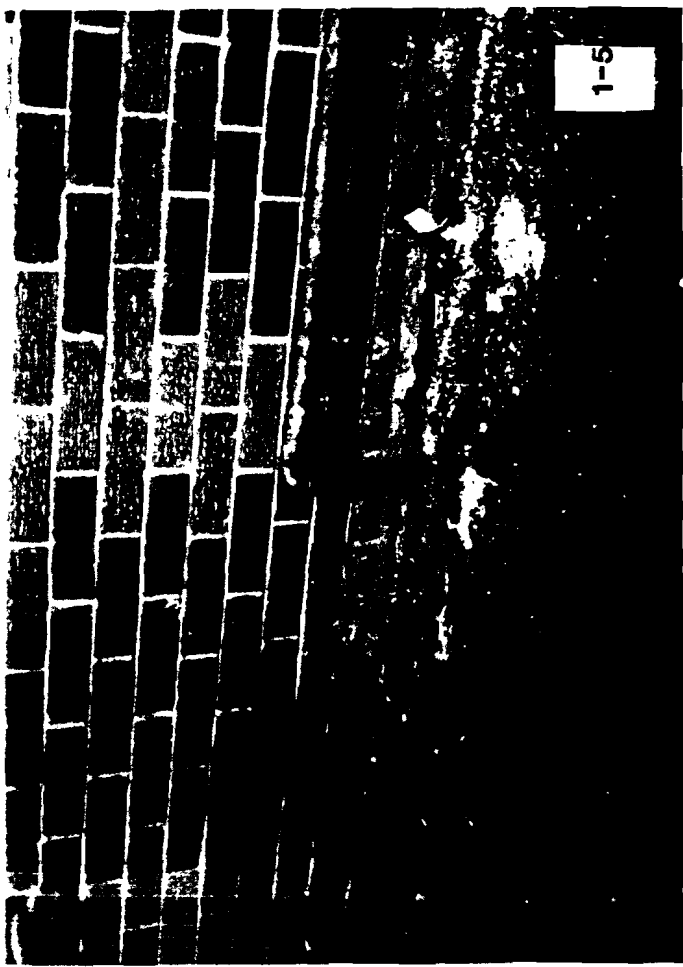


PHOTO LOG - EMR CIRUCITS

<u>Photo</u>	<u>Description</u>
1-1	This is view of the front of the building at 99 Marcus Boulevard where EMR Cirucits once conducted business. The photo was taken from Marcus Boulevard facing east.
1-2	This is another view of the front of the property at 99 Marcus Boulevard, facing south. There are two sanitary cesspools under this lawn, which have been sampled by SCDHS and found to be free of industrial waste contamination.
1-3	This is the paved parking lot along the north side of the brick building at 99 Marcus Boulevard. The photo faces west, toward Marcus Boulevard.
1-4	This photo shows the pipe which runs out through the north wall of the building and down into the ground in the parking lot. At one time, EMR Circuits discharged industrial waste through this pipe into two underground leachpools which are located under the pavement in the center of the photo.
1-5 and 1-6	Close-up pictures of the discharge pipe.
1-7	This photo shows the iron cap of the ground-water monitoring well that SCDHS drilled in the parking lot approximately 10 ft from the location of the cesspools.

## 2. PURPOSE

The EMR Circuits site was listed in the New York State Registry of Inactive Hazardous Wastes Sites because hazardous wastes were found in two leachpools 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), an assessment of the available information, and a recommended work plan for Phase II studies.

### 3. SCOPE OF WORK

The Phase I investigation of the EMR Circuits site involved a site inspection by EA Science and Technology, as well as record searches and interviews. The following agencies or individuals were contacted:

<u>Contact</u>	<u>Information Received</u>
Mr. Ronald B. Finkelstein Finkelstein Realty Corp. 450 Jericho Turnpike Mineola, New York 11501 (516) 747-5544	Site history/interview
Ms. Eileen Governale Public Health Sanitarian Suffolk County Department of Health Services Bureau of Environmental Health 15 Horseblock Place Farmingville, New York 11738 (516) 451-4633	Site history/interview
Mr. Anthony Candela, P.E. Senior Sanitary Engineer New York State Department of Environmental Conservation Division of Solid Waste SUNY Campus - Building 40 Stony Brook, New York 11794 (516) 751-7900	Site file
Mr. James H. Pim, P.E. Suffolk County Department of Health Services Hazardous Materials Management 15 Horseblock Place Farmingville, New York 11738 (516) 451-4634	Interview and site file
Mr. Steve Carey/Mr. Dennis Moran Suffolk County Department of Health Services Bureau of Water Resources 225 Rabro Drive East Hauppauge, New York 11788 (516) 348-2893	Ground-water use; public water supplies and ground- water monitoring information



Contact

Information Received

Mr. Dan Fricke  
Suffolk County Cooperative  
Extension Association  
264 Griffing Avenue  
Riverhead, New York 11901  
(516) 727-7850

Ground-water and surface  
water use for irrigation

Mr. William Schickler/Mr. Robert Bowen  
Suffolk County Water Authority  
Sunrise Highway and Pond Road  
Oakdale, New York 11769  
(516) 589-5200

Public water supply and  
distribution

Mr. Doug Pica  
New York State Department of  
Environmental Conservation  
Division of Water  
SUNY Campus - Building 40  
Stony Brook, New York 11794  
(516) 751-7900

Ground-water use for  
irrigation

Mr. Allan S. Connell  
District Conservationist  
U.S. Department of Agriculture  
Soil Conservation Survey  
127 East Main Street  
Riverhead, New York 11901

Ground-water use for  
irrigation

Mr. Al Anderson  
Chief Fire Inspector  
Town of Smithtown  
99 West Main Street  
Smithtown, New York 11787  
(516) 360-7539

Information regarding the  
threat of fire and/or  
explosion at the site

Mr. Kevin Walter, P.E.  
New York State Department of  
Environmental Conservation  
Division of Hazardous Waste Enforcement  
50 Wolf Road  
Albany, New York 12233-0001  
(518) 457-4346

Site file

Mr. John Iannotti, P.E.  
New York State Department of  
Environmental Conservation  
Bureau of Remedial Action  
50 Wolf Road  
Albany, New York 12233-0001  
(518) 457-5637

No file/information

Contact

Information Received

Mr. Earl Barcomb, P.E.  
New York State Department of  
Environmental Conservation  
Bureau of Municipal Wastes  
Section of Landfill Operations  
Vatrano Road  
Albany, New York 12205  
(518) 457-2051

No file/information

Mr. Peter Skinner, P.E.  
New York State Attorney  
General's Office  
Room 221  
Justice Building  
Albany, New York 12224  
(518) 474-2432

No file/information

Mr. Ron Tramontano/Mr. Charlie Hudson  
New York State Department of Health  
Bureau of Toxic Substances Assessment  
Nelson A. Rockefeller Empire State Plaza  
Corning Tower Building, Room 342  
Albany, New York 12237  
(518) 473-8427

No file/information

Mr. James Covey, P.E.  
New York State Department of Health  
Nelson A. Rockefeller Empire State Plaza  
Corning Tower Building  
Albany, New York 12237  
(518) 473-4637

Community Water  
Supply Atlas

Mr. Rocky Paggione, Atty./  
Mr. Louis A. Evans, Atty.  
New York State Department of  
Environmental Conservation  
Division of Environmental Enforcement  
202 Mamaroneck Avenue  
White Plains, New York 10601-5381  
(914) 761-6660

Site file/interview

Mr. Marsden Chen, P.E./Mr. Mike Komoroske  
New York State Department of  
Environmental Conservation  
Bureau of Hazardous Site Control  
50 Wolf Road  
Albany, New York 12233-0001  
(518) 457-0639

Registry form, site ownership

Contact

Mr. John W. Ozard  
Senior Wildlife Biologist  
New York State Department of  
Environmental Conservation  
Wildlife Resources Center  
Significant Habitat Unit  
Delmar, New York 12054  
(518) 439-7486

Mr. Perry Katz  
U.S. Environmental Protection Agency  
Region II  
Room 757  
26 Federal Plaza  
New York, New York 10278  
(212) 264-4595

Mr. Charles Guthrie  
Regional Fisheries Manager  
New York State Department  
of Environmental Conservation  
Region I  
SUNY Campus, Building 40  
Stony Brook, New York 11794  
(516) 751-7900

Mr. Brando  
Superintendent  
Brentwood Water District  
(516) 273-4565

Information Received

Significant habitats

No file/information

Surface water use for  
recreation

Public water supply

#### 4. SITE ASSESSMENT - EMR CIRCUITS, INC.

##### 4.1 SITE HISTORY

The EMR Circuits site is the former business location of EMR Circuits, Inc., where they manufactured circuitboards. The site is a one-story brick building located in an industrial park approximately 2,000 ft north of the Long Island Expressway on the corner of Kennedy Drive and Marcus Boulevard, in the Town of Smithtown, Suffolk County, New York. The property is managed by Ronald B. Finkelstein, Finkelstein Realty Inc. of Mineola, New York (Appendix 1.1-1). The property is owned by Grenlein Realty Co., c/o Neil H. Klein and Co., 175 Great Neck Road, Great Neck, New York (Appendix 1.1-1a). EMR Circuits, Inc. (Mr. Stewart Wood, President) leased the property and operated a business at the site from 1981 until 1984, and then moved to 89 Cabot Court in the Town of Smithtown. Today, EMR Circuits is out of business (Appendixes 1.1-2 and 1.1-3). Prior to 1981, the company was known as Electro Motive Research Corporation and was located at 35 Davids Drive in Hauppauge (Appendix 1.1-2). That location is also presently being investigated as a potential hazardous waste disposal site.

The EMR circuitboard manufacturing operation that was housed in the one-story brick building at 99 Marcus Boulevard was connected to two underground leaching pools located under the driveway-parking lot on the north side of the building. The Suffolk County Department of Health Services (SCDHS) began to suspect EMR was illegally discharging hazardous waste when liquids started bubbling up through the cement driveway north of the building (Appendix 1.1-5.) In 1981, the SCDHS began sampling the potential industrial discharge points at the facility. It was determined that EMR was discharging chemical wastes into a

floor drain which lead to the leaching system on the north side of the building. Unacceptable levels of heavy metals were detected on several occasions in the two leachpools north of the building (Appendix 1.1-6).

When this illegal discharge was discovered, a case was filed against EMR by SCDHS. On 26 April 1982, EMR entered into an Consent Order and agreed to cease all discharges until it had applied for and received a SPDES permit; to hold all industrial waste and to maintain receipts for any pickup of this waste; to apply for a permit to store hazardous materials; and to submit an engineering report identifying all industrial processes and discharges at the facility (Appendix 1.1-7). Although EMR began to implement the Consent Order by cleaning up one of the contaminated leachpools and sealing the floor drain, the stipulated conditions were never completely met (Appendixes 1.1-7 through 1.1-10).

In 1983, the SCDHS began receiving complaints from both anonymous and named EMR employees that hazardous wastes were still being discharged into the leachpools (Appendixes 1.1-11 and 1.1-12). In addition, they received complaints from a neighboring company that fumes from the EMR facility were causing physical discomfort to the company's employees (Appendix 1.1-13). Further inspections and sampling by SCDHS confirmed these allegations (Appendix 1.1-14). It was discovered that the owner was dumping chemicals down the floor drain in the building on weekends and then cementing it over, only to chip away the concrete, discharge more chemicals, and then reseal the hole time after time (Appendixes 1.1-5, 1.1-11, and 1.1-12). The exact quantity of the illegal discharge is unknown. Criminal proceedings were filed against Stewart Wood (Appendixes 1.1-1, 1.1-2, and 1.1-4).

On 11 November 1983, EMR cleaned out a contaminated leachpool located approximately 10 ft north of the building. Three days later the leachpool was backfilled with sand (Appendix 1.1-14a). During the clean out, a second leachpool was discovered, approximately 2 ft from the building. This pool was sampled on 18 November 1983 and again on 25 January 1984. This second pool was cleaned out on 25 January 1984 (Appendixes 1.1-14 and 1.1-17). Directed by SCDHS personnel, the company then had hazardous materials removed from the site (Appendixes 1.1-15 through 1.1-18). In 1984, the company moved from the property (Appendixes 1.1-1 and 1.1-3). Mr. Finkelstein, manager of the property, arranged to have the building ventilated, and to have the walls and floor washed down (Appendix 1.1-1). The SCDHS consider the facility to be clean (remediated) from the ground surface up, including the location of the former leachpools (Appendixes 1.1-1 and 1.1-6).

In March 1985, a 130-ft monitoring well was drilled adjacent to the former leachpools on the north side of the building. While drilling, a very strong chemical odor emanated from the hole. Soil samples taken from the well borings were analyzed for metals and were found to contain elevated levels of iron (1,200 ug/g), copper (8 ug/g), and other heavy metals. Water samples taken at depths of 115 ft and 127 ft were analyzed for organics and metals and were found to contain 1,1,1-trichloroethane (390 ppb), iron (2.4 mg/liter), and trace levels of several other heavy metals (Appendix 1.1-19).

According to the SCDHS and the NYSDEC, heavy industrial discharge to the ground through hidden leaching pools for a 4-year period has certainly caused significant ground-water contamination but no plume exploration has yet been accomplished (Appendixes 1.1-2 and 1.1-4).

## 4.2 SITE TOPOGRAPHY

The EMR Circuits site is located in the western-central part of Long Island at an elevation of approximately 170 ft above MSL (Appendix 1.2-1). The regional slope of terrain is to the east at approximately 1 percent. The site, including the lawn, sidewalk, driveway, and parking lot which surround the building, is flat.

The site is located in an industrial park and is bordered by Marcus Boulevard to the west, Kennedy Drive to the south, and commercial establishments to the north and east. The nearest commercial establishment is located in the same building with EMR. The nearest private residence is located approximately 2,500 ft south of the site on Warren Street. The nearest surface waterbody is a tributary which runs into New Millpond which is approximately 6,500 ft to the northeast. However, there is no viable overland route to this surface waterbody because of intervening roads, highways, and ground-water recharge basins. The nearest well, a Suffolk County Water Authority well, is located on Falcon Drive, approximately 0.9 mi to the northeast of the site (Appendix 1.2-1, 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 deposit is estimated to be 200 ft in

thickness (ground surface elevation 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) is estimated to be approximately 650 ft in thickness in the vicinity of the site (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 six nearby deep water supply wells: Well S-53360 (703-ft total borehole depth), Well S-22362 (315-ft total depth), and Well S-58708 (453-ft total borehole depth) located approximately 2-1/2, 2-1/4, and 1-1/2 mi, respectively, northwest of the site; Well S-32412 (755-ft total depth) and Well S-31104 (658-ft total depth) located about 1-1/4 and 2 mi, respectively, west- southwest of the site; and Well S-31624 (677-ft total borehole depth) located about 1-1/2 mi southeast of the site.

The Clay Member of the Raritan Formation is estimated to be 200 ft in thickness in the vicinity of the site (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 disseminated 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 interstratified 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, 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<sup>2</sup> estimated horizontal permeability at Brookhaven National Laboratory about 20 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 undesirably 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 and 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 the 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 the area is 49 in., of which 21 in. is estimated to infiltrate to the water table (Appendix 1.3-4). 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<sup>2</sup> (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 (Suffolk County Department of Health Services), the depth to ground water is estimated to be approximately 100 ft below ground surface, and the regional ground-water natural (unaffected by pumping) flow direction appears to be toward the northeast. Within 3 mi of the site, the upper glacial and Magothy aquifer of concern has been developed by 13 Suffolk County Water Authority well fields. Appendix 1.3-5 provides a list of the municipal wells and well fields located within 3 mi of the site. The area within 3 mi of the site appears to be served by public water systems, including Suffolk County Water Authority, Brentwood Water District, Dix Hills Water District, Greenlawn Water District, and the Smithtown Water District. There are also numerous private residences located northeast of the site which are not served by public water.

#### 4.4 SITE CONTAMINATION

##### Waste Types and Quantities

The disposal of hazardous wastes at the site has been confirmed according to SCDHS and the NYSDEC Inactive Hazardous Waste Disposal Site Report (Appendixes 1.1-2 and 1.1-4), however, exact quantities are unknown. The following types of waste are those confirmed at the site: 1,1,1-trichloroethane, 1,1,2-trichloroethylene, tetrachloroethylene, p-ethyltoluene, 1,3,5- and 1,2,4-trimethylbenzene, 1,2,4- and 1,2,3-trichlorobenzene, methyl ethyl ketone, xylene, copper, lead, nickel, and chromium (Appendixes 1.1-6 and 1.1-14).

### Ground Water

Analytical data from samples taken from a monitoring well drilled adjacent to the former leaching pools on the north side of the building indicate the presence of iron (2-2.4 mg/liter), trace levels of several other heavy metals, and 1,1,1-trichloroethane (390 ppb) (Appendix 1.1-19).

### Surface Water

No data available.

### Soil

Soil samples taken from the installation of the monitoring well at depths of 60 and 120 ft were analyzed for the presence of heavy metals (Appendix 1.1-19). The samples contained copper (8-16 ug/g), iron (930-1,200 ug/g), chromium (1.3-1.5 ug/g), nickel (2.6-3.8 ug/g), zinc (2.2-3.1 ug/g), and silver (0.4 ug/g).

### Air

In September 1983, SCDHS received complaints from Data Recording Systems, Inc. (DRS) (97 Marcus Boulevard), a business next door to EMR Circuits, Inc., regarding odors that were making employees ill. SCDHS sampled the air at DRS and determined that there were some volatile organics in the work place and that they probably came from EMR (Appendix 1.1-13).

EMR CIRCUITS  
TOWN OF SMITHTOWN, SUFFOLK COUNTY

The EMR Circuits site is located in an industrial park on the corner of Kennedy Drive and Marcus Boulevard, in the Town of Smithtown, Suffolk County, New York. EMR Circuits, Inc. (Mr. Stewart Wood, President) leased the property and operated a circuitboard manufacturing business there from 1981 until 1984. The EMR Circuits operations were connected to two underground leachpools via a floor drain and piping, into which they repeatedly discharged liquid chemical wastes. Grenlein Realty Co., c/o Neil H. Klein and Co., 175 Great Neck Road, Great Neck, New York owns the property. Mr. Ronald Finkelstein of Finkelstein Realty of Mineola, New York manages the property.

In 1981, the SCDHS began sampling the potential industrial discharge locations at EMR. Unacceptable levels of and heavy metals were detected in the two leachpools on the north side of the building. As a result, EMR entered into a Consent Order agreeing to cease all discharges until it had applied for and received a SPDES permit. The stipulations of the Consent Order were never met. Further inspections and sampling confirmed that EMR continued discharging hazardous materials to the leachpools. It was discovered that Stewart Wood was dumping chemicals down the floor drain on weekends and then cementing it over only to chip away the concrete, discharge more chemicals, and then reseal the hole again and again. Criminal proceedings were filed against Mr. Wood. The exact quantity of the illegal discharge is unknown.

During 1983 and 1984, under the supervision of SCDHS, EMR had the contaminated leachpool cleaned out and filled with clean sand, and had the hazardous wastes removed by a liscensed scavenger. In 1984, the company moved from the

property. After the company moved, Mr. Finkelstein arranged to have the building ventilated, and to have the walls and floors washed down. The SCDHS consider the facility to be clean (remediated) from the ground surface up, including the location of the former leachpools.

In March 1985, the SCDHS installed a 130-ft monitoring well adjacent to the former leachpools. During installation, the drillers noted a strong chemical odor emanating from the hole. Both soil boring and water samples taken at the time of installation contained elevated levels of metals and organics. No plume has yet been accomplished.

Coordinates:  
Latitude: 40°48'44"  
Longitude: 73°14'50"

EMR CIRCUITS INC.

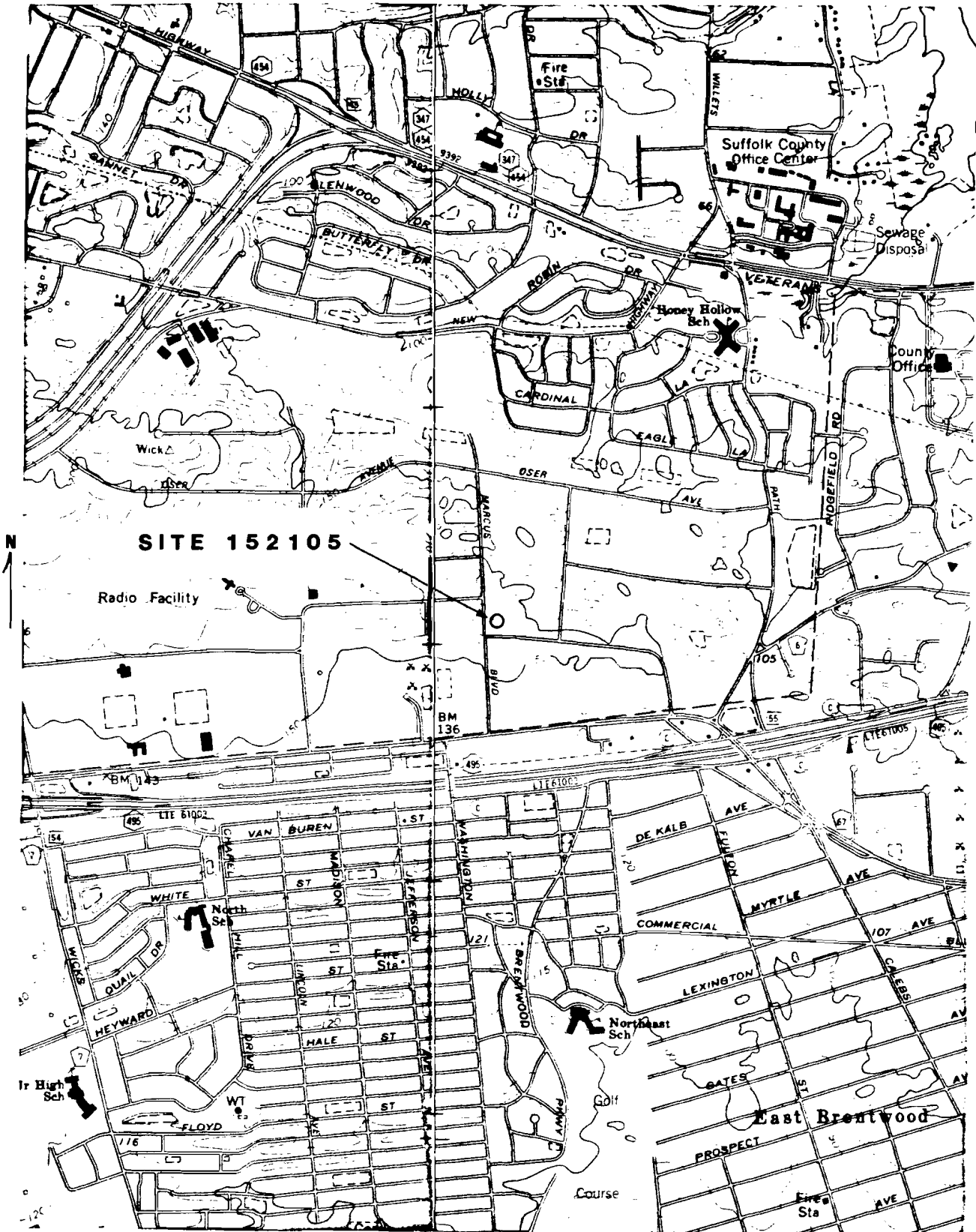


Figure 1-1.

CENTRAL ISLIP & GREENLAWN QUADS.

Scale 1:24,000

Facility name EMR Circuits

Location Town of Smithtown, Suffolk County

EPA Region II

Person(s) in charge of the facility: Mr. Ronald B. Finkelstein  
450 Jericho Turnpike  
Mineola, New York 11501

Name of Reviewer: EA Science and Technology Date: 9/24/86

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 was a circuitboard manufacturing facility located approxi-  
mately 2,000 ft north of the Long Island Expressway on the corner of  
Kennedy Drive and Marcus Boulevard. It was confirmed that the  
operation discharged hazardous waste into two leachpools. Analytical  
data from samples taken from the leachpools during 1981-1984 showed  
the presence of various solvents and metals. Limited ground-water  
analytical data exists from an onsite well.

Scores:  $S_M = 27.82$   $S_{gw} = 48.12$   $S_{sw} = 0$   $S_a = 0$  )  
 $S_{FE} = N/A$   
 $S_{DC} = 0$  Maximum  $S_M = 37.93$

FIGURE 1  
 HRS COVER SHEET



Ground Water Route Work Sheet:							Maximum Possible
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max Score	Ref. (Section)		
<b>1</b> Observed Release	0 45	1	0	45	3.1		45
If observed release is given a score of 45, proceed to line <b>4</b> If observed release is given a score of 0, proceed to line <b>2</b> .							
<b>2</b> Route Characteristics					3.2		
Depth to Aquifer of Concern	0 <b>1</b> 2 3	2	2	6			
Net Precipitation	0 1 2 <b>3</b>	1	3	3			
Permeability of the Unsaturated Zone	0 1 2 <b>3</b>	1	3	3			
Physical State	0 1 2 <b>3</b>	1	3	3			
Total Route Characteristics Score			11	15			
<b>3</b> Containment	0 1 2 <b>3</b>	1	3	3	3.3		
<b>4</b> Waste Characteristics					3.4		
Toxicity/Persistence	0 3 6 9 12 15 <b>18</b>	1	18	18			
Hazardous Waste Quantity	0 <b>1</b> 2 3 4 5 6 7 8	1	1	8			
Total Waste Characteristics Score			19	26			19
<b>5</b> Targets					3.5		
Ground Water Use	0 1 2 <b>3</b>	3	9	9			
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 <b>35</b> 40	1	35	40			
Total Targets Score			44	49			44
<b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b> If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b>			27,588	57,330			37,620
<b>7</b> Divide line <b>6</b> by 57,330 and multiply by 100			$S_{gw} = 48.12$				65.62

**FIGURE 2  
GROUND WATER ROUTE WORK SHEET**

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
<b>1</b> Observed Release	0      45	1	0	45	4.1	
If observed release is given a value of 45, proceed to line <b>4</b> . If observed release is given a value of 0, proceed to line <b>2</b> .						
<b>2</b> Route Characteristics					4.2	
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3		
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3		
Distance to Nearest Surface Water	0 1 2 3	2	2	6		
Physical State	0 1 2 3	1	3	3		
Total Route Characteristics Score			7	15		
<b>3</b> Containment	0 1 2 3	1	0	3	4.3	
<b>4</b> Waste Characteristics					4.4	
Toxicity/Persistence	0 3 6 9 12 15 18	1	0	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	0	8		
Total Waste Characteristics Score			0	26		
<b>5</b> Targets					4.5	
Surface Water Use	0 1 2 3	3	6	9		
Distance to a Sensitive Environment	0 1 2 3	2	2	6		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40		
Total Targets Score			8	55		
<b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b>			0			
If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b>				64,350		
<b>7</b> Divide line <b>6</b> by 64,350 and multiply by 100			$S_{sw} = 0$			

**FIGURE 7**  
**SURFACE WATER ROUTE WORK SHEET**

Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max Score	Ref. Section	
<b>1</b> Observed Release	<u>0</u> 45	1	0	45	5.1	
Date and Location:						
Sampling Protocol:						
If line <b>1</b> is 0, the $S_a = 0$ . Enter on line <b>5</b> .						
If line <b>1</b> is 45, then proceed to line <b>2</b> .						
<b>2</b> Waste Characteristics					5.2	
Reactivity and Incompatibility	0 1 2 3	1		3		
Toxicity	0 1 2 3	3		9		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
<b>3</b> Targets					5.3	
Population Within 4-Mile Radius	} 0 9 12 15 18 21 24 27 30	1		30		
Distance to Sensitive Environment	0 1 2 3	2		6		
Land Use	0 1 2 3	1		3		
Total Targets Score				39		
<b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>				35,100		
<b>5</b> Divide line <b>4</b> by 35,100 and multiply by 100			$S_a = 0$			

**FIGURE 9  
AIR ROUTE WORK SHEET**

	s	s <sup>2</sup>
Groundwater Route Score (S <sub>gw</sub> )	48.12	2,315.53
Surface Water Route Score (S <sub>sw</sub> )	0	0
Air Route Score (S <sub>a</sub> )	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		2,315.53
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		48.12
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		27.82

**FIGURE 10**  
**WORKSHEET FOR COMPUTING S<sub>M</sub>**

Maximum S<sub>M</sub> = 37.93

Fire and Explosion Work Sheet:						
Rating Factor	Assigned Value (Circle One)		Multi- plier	Score	Max. Score	Ref. (Section)
<b>1</b> Containment	1	3	1		3	7.1
<b>2</b> Waste Characteristics						7.2
Direct Evidence	0	3	1		3	
Ignitability	0	1 2 3	1		3	
Reactivity	0	1 2 3	1		3	
Incompatibility	0	1 2 3	1		3	
Hazardous Waste Quantity	0	1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score					20	
<b>3</b> Targets						7.3
Distance to Nearest Population	0	1 2 3 4 5	1		5	
Distance to Nearest Building	0	1 2 3	1		3	
Distance to Sensitive Environment	0	1 2 3	1		3	
Land Use	0	1 2 3	1		3	
Population Within 2-Mile Radius	0	1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0	1 2 3 4 5	1		5	
Total Targets Score					24	
<b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>					1,440	
<b>5</b> Divide line <b>4</b> by 1,440 and multiply by 100			S FE =	N/A		

**FIGURE 11  
FIRE AND EXPLOSION WORK SHEET**

Direct Contact Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max Score	Ref. (Section)	
<b>1</b> Observed Incident	0 45	1	0	45	8.1	
If line <b>1</b> is 45, proceed to line <b>4</b> If line <b>1</b> is 0, proceed to line <b>2</b>						
<b>2</b> Accessibility	0 1 2 3	1	0	3	8.2	
<b>3</b> Containment	0 15	1	0	15	8.3	
<b>4</b> Waste Characteristics Toxicity	0 1 2 3	5	0	15	8.4	
<b>5</b> Targets					8.5	
Population Within a 1-Mile Radius	0 1 2 3 4 5	4	20	20		
Distance to a Critical Habitat	0 1 2 3	4	0	12		
Total Targets Score			20	32		
<b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b> If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b>			0	21,600		
<b>7</b> Divide line <b>6</b> by 21,600 and multiply by 100			SDC = 0			

**FIGURE 12  
DIRECT CONTACT WORK SHEET**

**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: EMR Circuits

LOCATION: Town of Smithtown, Suffolk County

DATE SCORED: 24 September 1986

PERSON SCORING: EA Science and Technology

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

Mr. Ronald B. Finkelstein, Finkelstein Realty Corp.  
EA Site Inspection, 23 January 1986  
Suffolk County Department of Health Services

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

Air Route  
Observed Release: ground water

COMMENTS OR QUALIFICATIONS:

Ambient ground-water quality data are unavailable. This route is scored on the basis of confirmed contamination in two outside leachpools.

The local fire marshal does not consider the site to be an imminent fire or explosion threat.

Direct contact scored on the basis that the leachpools have been adequately cleaned and covered.

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Analytical data from an onsite ground-water monitoring well indicates the presence of iron (2-2.4 mg/liter), trace levels of several other heavy metals, and 1,1,1-trichloroethane in the ground water.

Reference: 2.

Rationale for attributing the contaminants to the facility:

No data available on ambient ground-water quality (Chapter 3) to confirm a release of contaminants from the site to ground water. Assigned value = 0.

Reference: 3.

\*\*\*

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 and 5.

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

100-102.87 ft.

References: 2, 6, and 15.

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

9 ft depth of leachpool.

Reference: 10.

Depth to aquifer of concern = 100 ft - 9 ft = 91 ft.

Assigned value = 1.

Reference: 3.



Net Precipitation

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

N/A.

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

N/A.

Net precipitation (subtract the above figures):

21 in.

Reference: 8.

Assigned value = 3.

Reference: 3.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Sand and gravel.

Reference: 4.

Permeability associated with soil type:

$>10^{-3}$  cm/sec. Assigned value = 3.

Reference: 3.

Physical State

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

Liquid.

Reference: 8.

Assigned value = 3.

Reference: 3.

### 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Leachpool.

References: 1 and 9.

Method with highest score:

Leachpool discharging directly to ground water. Assigned value = 3.

Reference: 3.

\*\*\*

### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

Chloroform, chromium, copper, lead, nickel, iron.

References: 2 and 10.

Compound with highest score:

All of the above = 18.

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):

Unknown.

Reference: Chapter 3.

Basis of estimating and/or computing waste quantity:

Minimum quantity assumed. Assigned value = 1.

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 unavailable.

References: 11, 12, 13, 14, 16, and 17.

Assigned value = 3.

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 Falcon Drive.

References: 11, 12, and 14.

Distance to above well or building:

Approximately 0.9 mi (measured from the leachpool, the location of documented contamination).

References: 11, 14, and 15.

Assigned value = 3.

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	271,590
St. Josephs Convent L.I. University	1,177
Brentwood Water District	<u>26,000</u>
	298,767

(Appendix 1.3-5 provides a list of community well fields and wells.)

Numerous private residences located northeast of the site are not served by public water.

References: 11-14 and 29.

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):

No agricultural land within 3 mi of the site.

Reference: 20.

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

298,767. Assigned value = 5. 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 (Chapter 3).

Assigned value = 0.

Reference: 3.

Rationale for attributing the contaminants to the facility:

\*\*\*

##### 2 ROUTE CHARACTERISTICS

###### Facility Slope and Intervening Terrain

Average slope of facility in percent:

Average slope = 0 percent for below grade leaching pool.

Reference: 1.

Name/description of nearest downslope surface water:

Tributary of New Millpond.

Reference: 15.

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

Average slope = <3 percent.

References: 1 and 15.

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

No.

References: 1 and 15.

Is the facility completely surrounded by areas of higher elevation?

No.

References: 1 and 15.

Combined assigned value = 0.

1-Year, 24-Hour Rainfall in Inches

2.5 in.

Assigned value = 2.

Reference: 3.

Distance to Nearest Downslope Surface Water

1.2 mi.

Reference: 15.

Assigned value = 1.

Reference: 3.

Physical State of Waste

Liquid.

Reference: 10.

Assigned value = 3.

References: 3.

\*\*\*

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Leachpools are covered. Also, the overland route of runoff from the site is interrupted by many roads, highways, and ground-water recharge basins.

References: 1 and 15.

Method with highest score:

Intervening terrain precludes runoff to surface water.

Reference: 1.

Assigned value = 0.

Reference: 3.

\*\*\*

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Contaminants score = 0. Therefore, waste characteristics are not evaluated.

Reference: 3.

Compound with highest score:

N/A.

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):

N/A.

Basis of estimating and/or computing waste quantity:

N/A.

\*\*\*

5 TARGETS

Surface Water Use

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

Recreational.

Reference: 21.

Assigned value = 2.

Reference: 3.

Is there tidal influence?

No.

Reference: 15.

Distance to a Sensitive Environment

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

1.44 mi.

Reference: 15.

Assigned value = 1.

Reference: 3.

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

None.

Reference: 15.

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

None.

Reference: 22.

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: 12, 16, and 17.

Assigned value = 0.

Reference: 3.

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.

References: 16 and 17.

Total population served:

Zero.

References: 11, 12, 16, and 17.

Assigned value = 0.

Reference: 3.

Name/description of nearest of above waterbodies:



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

#### AIR ROUTE

In September 1983, SCDHS received complaints from Data Recording Systems, Inc. (97 Marcus Boulevard), a business next door to EMR Circuits, Inc., regarding odors that were making employees ill. SCDHS sampled the air at DRS and determined that there were some volatile organics in the workplace and that they probably came from EMR (Reference: 28). However, the site was remediated (above ground) in November 1983 (References: 24 and 26). There are no current data available in any of the agency files examined (Chapter 3). No HNU readings above background were obtained during EA's site inspection, 23 January 1986. Assigned value = 0. Reference: 3.

#### 1 OBSERVED RELEASE

Contaminants detected:

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

\*\*\*

#### 2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

\*\*\*

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi            0 to 1 mi            0 to 1/2 mi            0 to 1/4 mi

Distance to a Sensitive Environment

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

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

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

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

FIRE AND EXPLOSION

The local fire marshal has not certified that the site presents a significant fire or explosion threat (Reference: 23). There are no analytical data available in any of the agency files (Chapter 3).

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

\*\*\*

## 2 WASTE CHARACTERISTICS

### Direct Evidence

Type of instrument and measurements:

### Ignitability

Compound used:

### Reactivity

Most reactive compound:

### Incompatibility

Most incompatible pair of compounds:

\*\*\*

### Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No observed incident on record.

Reference: Section 3.

Site remediated above ground, i.e., leachpools cleaned out and filled with sand and paved over. References: 24 and 26.

Assigned value = 0.

Reference: 3.

\*\*\*

2 ACCESSIBILITY

Describe type of barrier(s):

Leachpools have been cleaned and filled in.

References: 24 and 26.

Assigned value = 0.

Reference: 3.

\*\*\*

3 CONTAINMENT

Type of containment, if applicable:

Leachpools have been cleaned and filled in.

References: 24 and 26.

Assigned value = 0.

Reference: 3.

\*\*\*

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Containment score = 0. Therefore, waste characteristics are not evaluated.

Reference: 3.

Compound with highest score:

\*\*\*

5 TARGETS

Population Within 1-Mile Radius

13,415. Estimated 30 percent of the population of Hauppauge (6,114), 2 percent of Central Islip (382), and 15 percent of Brentwood (6,649).

Reference: 25.

Assigned value = 5.

Reference: 3.

Distance to Critical Habitat (of Endangered Species)

None within 1 mi.

Reference: 22.

Assigned value = 0.

Reference: 3.



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3. U.S. Environmental Protection Agency. 1984. Uncontrolled Hazardous Waste Site Ranking System. A Users Manual. (HW-10). Originally published in the July 16, 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.)
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6. Suffolk County Department of Health Services (SCDHS). 1985. Contour Map of the Water Table and Location of Observation Wells in Suffolk County, New York.
7. SCDHS. 1983. Field observations.
8. Lubke, E.R. 1964. Hydrogeology of the Huntington-Smithtown Area Suffolk County, New York. U.S. Geological Survey Water Supply Paper 1669-D. (Appendix 1.3-4.)
9. Governale, E. 1986. Public Health Sanitarian, SCDHS. Personal Communication, 23 January. (Appendix 1.1-5.)
10. SCDHS. Analytical data from leaching pool samples or holding tank, process tank, and discharge hose at EMR Circuits, Inc. on 16 December 1981, 5 May 1982, 23 March, 8 July, 10 August, 29 October, 18 November 1983, and 25 January and 17 August 1984. (Appendixes 1.1-6 and 1.1-14.)
11. SCDHS Water Resources Division. Supply and Monitoring Well Location Maps.
12. New York State Department of Health (NYSDOH). 1982. New York State Atlas of Community Water System Sources.
13. NYSDOH. 1984. Inventory-Community Water Systems.
14. Suffolk County Water Authority. 1985. Distribution of System Plates: 25N, 16N, 14M, 25M, and 26M. (Appendix 1.3-5.)
15. U.S. Geological Survey. 1979 photorevised. 7.5-Minute Series. Central Islip and Greenlawn Quads. (Appendix 1.2-1.)
16. 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. (Appendix 1.5-1.)

#### REFERENCES (Cont)

17. Fricke, D. 1986. Suffolk County Cooperative Extension Association. Personal Communication. 7 April. (Appendix 1.5-2.)
18. Carey, S. 1986. Ground Water Section, Suffolk County Department of Health Services. Personal Communication. 7 April. (Appendix 1.5-3.)
19. Pica, D. 1986. Water Unit, Region I, NYSDEC. Personal Communication. 7 April. (Appendix 1.5-4.)
20. Long Island Regional Planning Board. 1982. Land Use in 1981, Quantification and Analysis of Land Use for Nassau and Suffolk Counties. Plates 5 and 6. (Appendix 1.5-9.)
21. Guthrie, C. 1986. Regional Fisheries Manager, Region I, NYSDEC. Personal Communication. 14 October. (Appendix 1.5-5.)
22. Ozard, J.W. 1986. Senior Wildlife Biologist. New York State Department of Environmental Conservation Wildlife Resources Center, Significant Habitat Unit. Personal Communication. 26 February. (Appendix 1.5-6.)
23. Anderson, A. 1986. Chief Fire Inspector, Town of Smithtown. Personal Communication. 21 April. (Appendix 1.5-7.)
24. SCDHS. 1983. James. A. Whitney, Public Health Sanitarian. Notes on the cleaning of leachpools at EMR Circuits. (Appendix 1.1-14a.)
25. Long Island Regional Planning Board. 1985. Population Survey 1985. Current Population Estimates for Nassau and Suffolk Counties. Hauppauge, Long Island, New York.
26. Letter from S. Wood, President, to J. Gladys, SCDHS, regarding a hazardous waste manifest. 18 November. (Appendix 1.1-15.)
27. NYSDOT. 1981. 7.5-Minute Series Topographic: Central Islip Quad. Figure 1-1.)
28. SCDHS. 1983. Uniform complaint field report dated 17 August, and air quality data collected at EMR building and a nearby commercial establishment on 7 September 1983. (Appendix 1.1-13.)
29. Suffolk County Water Authority. 1985. Active Services. December. (Appendix 1.5-8.)

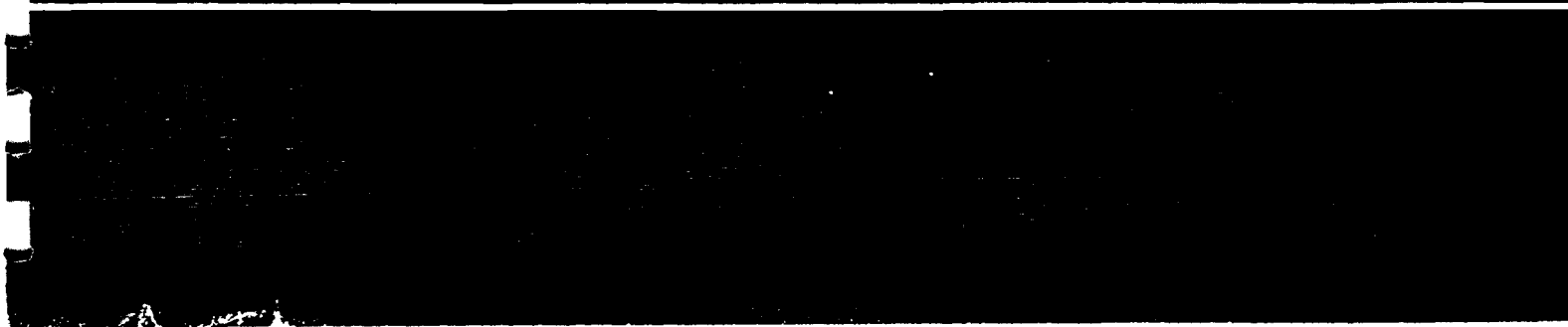
EMR Circuits

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# Potential Hazardous Waste Site

## Preliminary Assessment





**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) <b>EMR Circuits</b>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <b>99 Marcus Boulevard</b>			
03 CITY <b>Hauppauge</b>	04 STATE <b>NY</b>	05 ZIP CODE <b>11788</b>	06 COUNTY <b>Suffolk</b>	07 COUNTY CODE	08 CONG DIST
09 COORDINATES LATITUDE <b>40° 48' 44."</b>		LONGITUDE <b>73° 14' 50"</b>			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
  
Property is on the corner of Kennedy Drive and (99) Marcus Boulevard in Hauppauge, New York.

**III. RESPONSIBLE PARTIES**

01 OWNER (If known) <b>Manager; Owner Rep., Ronald B. Finkelstein</b>		02 STREET (Business, mailing, residential) <b>450 Jericho Turnpike</b>			
03 CITY <b>Mineola</b>	04 STATE <b>NY</b>	05 ZIP CODE <b>11501</b>	06 TELEPHONE NUMBER <b>616 ) 747-5544</b>		
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  
 BEGINNING YEAR: **1981**    ENDING YEAR: **1984**     UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
  
Circuitboard manufacturing company discharged solvents and heavy metals into underground cesspools.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
  
Potential for ground-water contamination; heavy metals and solvents found in ground-water monitoring well on site.

**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 <b>Rebecca Ligotino</b>	02 OF (Agency, Organization) <b>EA Science and Technology</b>		03 TELEPHONE NUMBER <b>(914) 692-6706</b>
04 PERSON RESPONSIBLE FOR ASSESSMENT <b>William Goig</b>	05 AGENCY <b>EA</b>	06 ORGANIZATION <b>EA</b>	07 TELEPHONE NUMBER <b>(914) 692-6706</b>
			08 DATE <b>3 / 26 / 86</b> MONTH DAY YEAR



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION**

**I. IDENTIFICATION**

01 STATE NY	02 SITE NUMBER New
----------------	-----------------------

**II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS**

<b>01 PHYSICAL STATES (Check all that apply)</b> <input type="checkbox"/> A SOLID <input type="checkbox"/> B POWDER, FINES <input type="checkbox"/> C SLUDGE <input type="checkbox"/> D OTHER _____ <i>(Specify)</i>	<b>02 WASTE QUANTITY AT SITE</b> <i>(Measures of waste quantities must be independent!)</i> TONS _____ CUBIC YARDS _____ NO. OF DRUMS <u>Unknown</u>	<b>03 WASTE CHARACTERISTICS (Check all that apply)</b> <input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> G FLAMMABLE <input type="checkbox"/> H IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE
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**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			
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	Chloroform	67-66-3	TK	320	ppb
SOL	1,1,1 Trichloroethane	71-55-6	TK	1,600	ppb
SOL	1,1,2 Trichloroethylene	79-01-6	TK	270,000	ppb
SOL	Tetrachloroethylene	127-18-4	TK	1,200	ppb
SOL	o-ethyltoluene	---	TK	10,000	ppb
SOL	xylene(s)	1330-20-7	TK	1,400	ppb
SOL	1,3,5 Trimethylbenzene	---	TK	5,200	ppb
SOL	1,2,4 Trimethylbenzene	95-63-6	TK	11,000	ppb
SOL	1,2,4 Trichlorobenzene	120-82-1	TK	1,800	ppb
SOL	1,2,3 Trichlorobenzene	87-61-6	TK	1,900	ppb
SOL	Methyl Ethyl-ketone	78-93-3	TK	69,000	ppb
MES	Copper	7440-50-8	OD-Spill	110.0	mg/liter
MES	Lead	7439-92-1	OD Spill	1.0	mg/liter
MES	Nickel	7440-02-0	OD-Spill	2.4	mg/liter
MES	Chromium	7440-47-3	OD-Spill	0.03	mg/liter

**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)**

New York State Department of Environmental Conservation Inactive Hazardous Waste Disposal Site Report  
 Suffolk County Department of Health Services file  
 EA site inspection, 23 January 1986.

EMR Circuits, Inc.

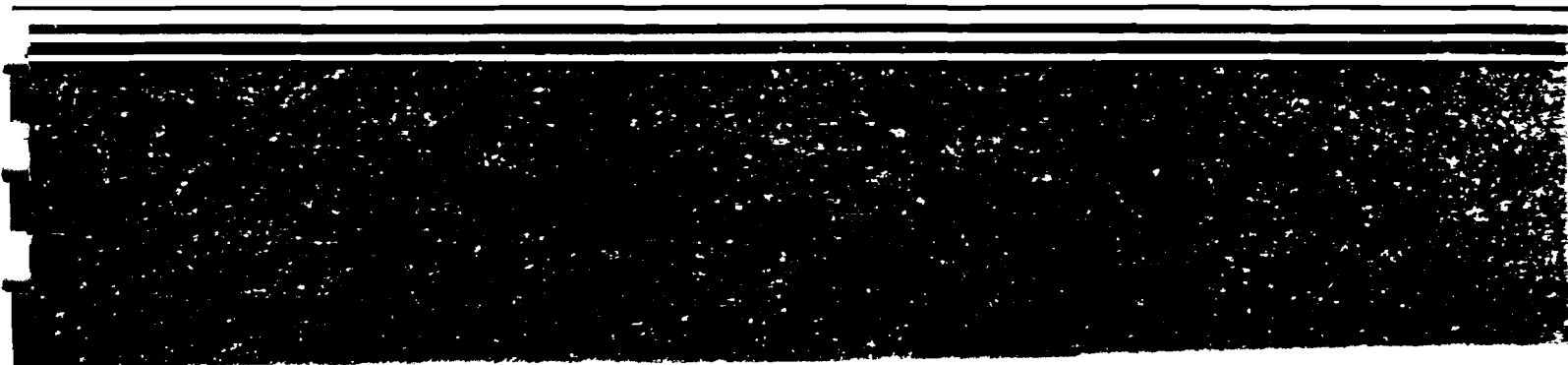
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# Potential Hazardous Waste Site

## Site Inspection Report





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

**I. IDENTIFICATION**

01 STATE NY	02 SITE NUMBER NEW
----------------	-----------------------

**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site) EMR Circuits, Inc.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 99 Marcus Boulevard			
03 CITY Hauppauge (Town of Smithtown)		04 STATE NY	05 ZIP CODE 11788	06 COUNTY Suffolk	07 COUNTY CODE
09 COORDINATES LATITUDE 40° 48' 44" -		LONGITUDE 73° 14' 50" -			
10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN					

**III. INSPECTION INFORMATION**

01 DATE OF INSPECTION 01 / 23 / 86 <small>MONTH DAY YEAR</small>	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1981   1984 <small>BEGINNING YEAR ENDING YEAR</small>		UNKNOWN
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04 AGENCY PERFORMING INSPECTION (Check all that apply):

A. EPA     B. EPA CONTRACTOR     C. MUNICIPAL     D. MUNICIPAL CONTRACTOR  
 E. STATE     F. STATE CONTRACTOR EA Science and Tech.     G. OTHER

05 CHIEF INSPECTOR William Going	06 TITLE Environmental Scientist	07 ORGANIZATION EA	08 TELEPHONE NO (914) 692-6706
09 OTHER INSPECTORS Ellen Bidwell	10 TITLE Geologist	11 ORGANIZATION EA	12 TELEPHONE NO (914) 692-6706
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED Ronald B. Finkelstein	14 TITLE Manager Owner Rep	15 ADDRESS 450 Jericho Turnpike Mineola, New York 11501	16 TELEPHONE NO (516) 747-5544
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 1300 hours	19 WEATHER CONDITIONS Sunny, cold (no snow cover)
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**IV. INFORMATION AVAILABLE FROM**

01 CONTACT Rebecca Ligotino	02 OF (Agency/Organization) EA Science and Technology		03 TELEPHONE NO (914) 692-6706
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM William Going	05 AGENCY	06 ORGANIZATION EA	07 TELEPHONE NO (914) 692-6706
			08 DATE 09 / 24 / 86 <small>MONTH DAY YEAR</small>



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

**I. IDENTIFICATION**

01 STATE NY	02 SITE NUMBER NEW
----------------	-----------------------

**II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS**

<b>01 PHYSICAL STATES</b> (Check all that apply) <input type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ <small>(Specify)</small>	<b>02 WASTE QUANTITY AT SITE</b> <small>(Measure of waste quantity must be independent)</small> TONS _____ CUBIC YARDS _____ NO OF DRUMS <u>unknown</u>	<b>03 WASTE CHARACTERISTICS</b> (Check all that apply) <input checked="" type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
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**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			
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	Chloroform	67-66-3	TK	12	ppb
SOL	1,1,1 Trichloroethane	71-55-6	TK	4,300	ppb
SOL	1,1,2 Trichloroethylene	79-01-6	TK	13,000	ppb
SOL	Xylene	1330-20-7	TK	910	ppb
SOL	2-Butanone	1338-23-4	TK	860,000	ppb
SOL	Methyl Ethyl Ketone	78-93-3	TK	2,100	ppb
SOL	Ethylbenzene	100-41-4	TK	130	ppb
SOL	Methylene Chloride	74-87-3	TK	130	ppb
SOL	Phenol	108-95-2	TK	0.59	mg/liter
MES	Copper	7440-50-8	TK	1,340.0	mg/liter
MES	Lead	7439-92-1	TK	100.0	mg/liter
MES	Nickel	7440-02-0	TK	22.0	mg/liter
MES	Chromium	7440-47-3	TK	6.0	mg/liter
MES	Iron	7439-89-6	TK	22.0	mg/liter

**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)

Appendixes 1.1-7 and 1.1-16.





**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**

01  A. GROUNDWATER CONTAMINATION      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: 298,767      04 NARRATIVE DESCRIPTION  
 Ground water in the aquifer of concern is the source for 13 Suffolk County Water Authority well fields, the Brentwood Water District (2 wells), and St. Joseph's Convent Long Island University (1 well). Plus an undetermined number of domestic wells also exist.

01  B. SURFACE WATER CONTAMINATION      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
 No viable overland route to surface water.

01  C. CONTAMINATION OF AIR      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
 SCDHS took several samples at the site after receiving complaints of solvent odors. The samples contained excessive levels of several organic compounds.

01  D. FIRE/EXPLOSIVE CONDITIONS      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
 No imminent threat.

01  E. DIRECT CONTACT      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
 None known.

01  F. CONTAMINATION OF SOIL      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 AREA POTENTIALLY AFFECTED: unknown      04 NARRATIVE DESCRIPTION  
(Acres)  
 SCDHS analyzed portions of the soil which resulted from the monitoring well installation. It contained elevated levels of several heavy metals

01  G. DRINKING WATER CONTAMINATION      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: 298,767      04 NARRATIVE DESCRIPTION  
 Limited to the population served by ground water from the aquifer of concern within a 3-mi radius of the site.

01  H. WORKER EXPOSURE/INJURY      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
 In September 1983, SCDHS received complaints from Data Recording Systems, Inc. (97 Marcus Boulevard), a business next door to EMR Circuits, Inc., regarding odors that were making employees ill. SCDHS sampled the air at DRS and determined that there were some volatile organics in the workplace and that they probably came from EMR.

01  I. POPULATION EXPOSURE/INJURY      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
 None known.



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

**I. IDENTIFICATION**

01 STATE NY	02 SITE NUMBER NEW
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**II. HAZARDOUS CONDITIONS AND INCIDENTS** *(Continued)*

01  J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION  
None known.

02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED

01  K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION *(include name(s) of species)*  
None known.

02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED

01  L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION  
None known.

02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED

01  M. UNSTABLE CONTAINMENT OF WASTES  
*(Spills, Runoff, Standing liquids, Leaking drums)*  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      04 NARRATIVE DESCRIPTION  
Liquid industrial wastes containing metals and solvents discharged to leach-pools.

02  OBSERVED (DATE 1981-1984)       POTENTIAL       ALLEGED

01  N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION  
No potential.  
None known.

02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED

01  O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION  
No potential.

02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED

01  P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION  
EMR repeatedly discharged hazardous chemicals into two leachpools on the north side of the building.

02  OBSERVED (DATE 1981-1984)       POTENTIAL       ALLEGED

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 298,767

**IV. COMMENTS**

**V. SOURCES OF INFORMATION** *(Cite specific references e.g. State files, Sample analysis reports)*

EA Site Inspection, 23 January 1986  
Appendixes 1.1-7, 1.1-13, and 1.1-16.  
Chapter 4.



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

I. IDENTIFICATION	
01 STATE NY	02 SITE NUMBER NEW

**II. PERMIT INFORMATION** None

01 TYPE OF PERMIT ISSUED <i>(Check all that apply)</i>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE <i>(Specify)</i>				
<input type="checkbox"/> H. LOCAL <i>(Specify)</i>				
<input type="checkbox"/> I. OTHER <i>(Specify)</i>				
<input type="checkbox"/> J. NONE				

**III. SITE DESCRIPTION**

01 STORAGE/DISPOSAL <i>(Check all that apply)</i>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <i>(Check all that apply)</i>	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT <input type="checkbox"/> B. PILES <input type="checkbox"/> C. DRUMS, ABOVE GROUND <input type="checkbox"/> D. TANK, ABOVE GROUND <input type="checkbox"/> E. TANK, BELOW GROUND <input type="checkbox"/> F. LANDFILL <input type="checkbox"/> G. LANDFARM <input type="checkbox"/> H. OPEN DUMP <input checked="" type="checkbox"/> I. OTHER <u>leachpool</u> <i>(Specify)</i>	<u>                    </u>	<u>                    </u>	<input type="checkbox"/> A. INCENERATION <input type="checkbox"/> B. UNDERGROUND INJECTION <input type="checkbox"/> C. CHEMICAL/PHYSICAL <input type="checkbox"/> D. BIOLOGICAL <input type="checkbox"/> E. WASTE OIL PROCESSING <input type="checkbox"/> F. SOLVENT RECOVERY <input type="checkbox"/> G. OTHER RECYCLING/RECOVERY <input type="checkbox"/> H. OTHER <u>                    </u> <i>(Specify)</i>	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE  06 AREA OF SITE <u>0.05</u> (Acres)

07 COMMENTS

**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

Leachpools are adequately covered,

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

EA Site Inspection, 23 January 1986.  
Appendixes 1.1-4 through 1.1-6.



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

I IDENTIFICATION	
01 STATE NY	02 SITE NUMBER NEW

**II. DRINKING WATER SUPPLY**

01 TYPE OF DRINKING SUPPLY <i>(Check as applicable)</i>	02 STATUS <u>Unknown</u>	03 DISTANCE TO SITE																		
<table border="0"> <tr> <td></td> <td align="center">SURFACE</td> <td align="center">WELL</td> </tr> <tr> <td>COMMUNITY</td> <td align="center">A. <input type="checkbox"/></td> <td align="center">B. <input checked="" type="checkbox"/></td> </tr> <tr> <td>NON-COMMUNITY</td> <td align="center">C. <input type="checkbox"/></td> <td align="center">D. <input checked="" type="checkbox"/></td> </tr> </table>		SURFACE	WELL	COMMUNITY	A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>	NON-COMMUNITY	C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table border="0"> <tr> <td>ENDANGERED</td> <td>AFFECTED</td> <td>MONITORED</td> </tr> <tr> <td>A. <input type="checkbox"/></td> <td>B. <input type="checkbox"/></td> <td>C. <input type="checkbox"/></td> </tr> <tr> <td>D. <input type="checkbox"/></td> <td>E. <input type="checkbox"/></td> <td>F. <input type="checkbox"/></td> </tr> </table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. <u>0.9</u> (mi) B. <u>appr. 1.5</u> (mi)
	SURFACE	WELL																		
COMMUNITY	A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>																		
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>																		
ENDANGERED	AFFECTED	MONITORED																		
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>																		
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>																		

**III. GROUNDWATER**

01 GROUNDWATER USE IN VICINITY <i>(Check one)</i>				
<input checked="" type="checkbox"/> A. ONLY SOURCE FOR DRINKING		<input type="checkbox"/> B. DRINKING <i>(Other sources available)</i>	<input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION <i>(Limited other sources available)</i>	<input type="checkbox"/> D. NOT USED, UNUSEABLE
COMMERCIAL, INDUSTRIAL, IRRIGATION <i>(No other water sources available)</i>				
02 POPULATION SERVED BY GROUND WATER <u>298,767</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL _____ (mi)		
04 DEPTH TO GROUNDWATER <u>100</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>NE</u>	06 DEPTH TO AQUIFER OF CONCERN <u>91</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>unknown</u> (gpd)	08 SOLE SOURCE AQUIFER <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

09 DESCRIPTION OF WELLS *(including usage, depth, and location relative to population and buildings)*  
The Suffolk County Water Authority has 13 well fields; the Brentwood Water District, two wells; and St. Joseph's Convent Long Island University has one well within a 3-mi radius of the site. The wells pull water from the Upper Glacial and Magothy aquifers. There are also some residences served by private wells within a 3-mi radius of the site.

10 RECHARGE AREA		11 DISCHARGE AREA	
<input checked="" type="checkbox"/> YES	COMMENTS	<input type="checkbox"/> YES	COMMENTS
<input type="checkbox"/> NO		<input type="checkbox"/> NO	

**IV. SURFACE WATER**

01 SURFACE WATER USE <i>(Check one)</i>			
<input checked="" type="checkbox"/> A. RESERVOIR, RECREATION, DRINKING WATER SOURCE	<input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES	<input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL	<input type="checkbox"/> D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER			
NAME	AFFECTED	DISTANCE TO SITE	
<u>Tributary to New Millpond</u>	<input type="checkbox"/>	<u>1.2</u> (mi)	
_____	<input type="checkbox"/>	_____ (mi)	
_____	<input type="checkbox"/>	_____ (mi)	

**V. DEMOGRAPHIC AND PROPERTY INFORMATION**

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. <u>13,145</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>49,010</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>93,817</u> NO. OF PERSONS	<u>adjacent</u> (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____		04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>adjacent</u> (mi)	
05 POPULATION WITHIN VICINITY OF SITE <i>(Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated, urban area)</i>			
Site located in an industrial park which is surrounded by medium and high density residential areas.			



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

I. IDENTIFICATION	
01 STATE NY	02 SITE NUMBER NEW

<b>VI. ENVIRONMENTAL INFORMATION</b>				
01 PERMEABILITY OF UNSATURATED ZONE (Check one)				
<input type="checkbox"/> A. $10^{-6} - 10^{-8}$ cm/sec <input type="checkbox"/> B. $10^{-4} - 10^{-6}$ cm/sec <input type="checkbox"/> C. $10^{-4} - 10^{-3}$ cm/sec <input checked="" type="checkbox"/> D. GREATER THAN $10^{-3}$ cm/sec				
02 PERMEABILITY OF BEDROCK (Check one) <b>Unknown</b>				
<input type="checkbox"/> A. IMPERMEABLE (Less than $10^{-8}$ cm/sec) <input type="checkbox"/> B. RELATIVELY IMPERMEABLE ( $10^{-4} - 10^{-8}$ cm/sec) <input type="checkbox"/> C. RELATIVELY PERMEABLE ( $10^{-2} - 10^{-4}$ cm/sec) <input type="checkbox"/> D. VERY PERMEABLE (Greater than $10^{-2}$ cm/sec)				
03 DEPTH TO BEDROCK 1,400 (ft)	04 DEPTH OF CONTAMINATED SOIL ZONE unknown (ft)	05 SOIL pH unknown		
06 NET PRECIPITATION 21 (in)	07 ONE YEAR 24 HOUR RAINFALL 2.5-3.0 (in)	08 SLOPE SITE SLOPE 0 %	DIRECTION OF SITE SLOPE NE & SE	TERRAIN AVERAGE SLOPE < 3 %
09 FLOOD POTENTIAL SITE IS IN N/A YEAR FLOODPLAIN		10 <input type="checkbox"/> SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY		
11 DISTANCE TO WETLANDS (5 acre minimum)		12 DISTANCE TO CRITICAL HABITAT (of endangered species)		
ESTUARINE OTHER A. 1.44 (mi) B. _____ (mi)		_____ (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 AG LAND
A. adjacent (mi)		B. 0.5 (mi)		C. 3.7 (mi) D. 3.7 (mi)
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY				
<p>Site is located in the western-central part of Long Island at an elevation of about 170 ft above mean sea level. The site is flat. Regional slope is approximately 1 percent to the east.</p>				

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

EA Site Inspection, 23 January 1986  
 USGS. 1979. 7.5-Minute Planimetric Series, Central Islip and Greenlawn Quads.  
 LIRPB. 1982. Quantification and Analysis of Land Use for Nassau and Suffolk Counties.  
 LIRPB. 1985. Population Survey. 1985: Current Population Estimates for Nassau and Suffolk Counties, Hauppauge, New York.  
 U.S. Department of Interior Geological Survey. 1967. Map of Flood-prone Areas. 7.5-Minute Series, Central Islip Quad.

EPA FORM 2070-13 (7-81)  
 Ozard, J. 1986. NYSDEC, Personal Communication, 6 March.  
 NYSDOH. 1982. New York State Atlas of Community Water System Services.  
 SCWA. 1986. Active Services Estimates.



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

I IDENTIFICATION

01 STATE NY 02 SITE NUMBER 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	Measured with HNU. No readings above background.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input checked="" type="checkbox"/> AERIAL	02 IN CUSTODY OF EA Science and Technology <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS EA Science and Technology

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

EA Site Inspection, 23 January 1986.



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

**I. IDENTIFICATION**

01 STATE NY	02 SITE NUMBER NEW
----------------	-----------------------

III. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Grenlein Realty Co. c/o Neil H. Klein Co.		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 175 Great Neck Road			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY Great Neck,		06 STATE NY	07 ZIP CODE 11021	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
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)				IV. REALTY OWNER(S) (if applicable list most recent first)			
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
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
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

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

Appendix 1.1-1.



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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	NEW

<b>II. CURRENT OPERATOR</b> (Provide if different from owner: N/A)				<b>OPERATOR'S PARENT COMPANY</b> (if applicable)				
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						
<b>III. PREVIOUS OPERATOR(S)</b> (List most recent first, provide any if different from owner)				<b>PREVIOUS OPERATORS' PARENT COMPANIES</b> (if applicable)				
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 DURING THIS PERIOD						
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 DURING THIS PERIOD						
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 DURING THIS PERIOD						
<b>IV. SOURCES OF INFORMATION</b> (Cite specific references, e.g., State Reg. sample analysis reports)								
Appendixes 1.1-1 and 1.1-6.								





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	NEW

II. ON-SITE GENERATOR N/A

01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	
04 SIC CODE		04 SIC CODE	
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	
04 SIC CODE		04 SIC CODE	
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	
04 SIC CODE		04 SIC CODE	
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	
04 SIC CODE		04 SIC CODE	
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

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



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

I IDENTIFICATION

01 STATE NY 02 SITE NUMBER NEW

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input checked="" type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION Under the direction of SCDHS, the company had hazardous waste removed from site.	02 DATE <u>1983-1984</u>	03 AGENCY <u>SCDHS</u>
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____



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

I IDENTIFICATION

01 STATE NY 02 SITE NUMBER NEW

II PAST RESPONSE ACTIVITIES (Continued)

01  R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE 1983-1984

03 AGENCY SCDHS

EMR had the contaminated leachpools cleaned and filled with clean sand and gravel.

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

Appendixes 1.1-15, 1.1-16, 1.1-17, and 1.1-17a.



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

In April 1982, EMR entered into a Consent Order agreeing to cease all discharges until they had applied for and received a SPDES permit to hold all industrial waste and to maintain receipts for any pickup of this waste; to apply for a permit to store hazardous materials; and to submit an engineering report identifying all industrial processes and discharges at the facility. The stipulated conditions were never completely met.

After continuing to dispose of hazardous chemicals illegally, criminal proceedings were filed against the owner in 1983.

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

Appendixes 1.1-1, 1.1-2, 1.1-4, and 1.1-7 through 1.1-10.

## 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 this site. Although analytical data are available for ground-water samples, ambient data are lacking. Soil sample analytical data area also available.

### 6.2 RECOMMENDATIONS

In order to prepare a final HRS score for this site, analytical data regarding the quality of the ambient ground water and additional sediment quality data will be necessary, thus requiring performance of a Phase II investigation. The proposed Phase II study would include the installation of three test borings/ observation wells, and the collection and analysis of ground-water and sediment samples.

### 6.3 PHASE II WORK PLAN

#### 6.3.1 Task 1 - Mobilization and Site Reconnaissance

Project mobilization includes review of the Phase I report and updating the site database with any new information made available since completion of the Phase I report. Based on that review, a draft scope of work for this site will be agreed to and a project schedule developed. At this time, a draft Quality Assurance/Quality Control (QA/QC) document will be prepared in accordance with the most up-to-date NYSDEC guidelines.

Site reconnaissance will be performed to examine general site access for Phase II studies. Site reconnaissance will familiarize key project personnel with the site, enable the project geologists to evaluate potential boring/well locations, and enable the project Health and Safety Officer to develop specific health and safety requirements for the field activities. Emergency, fire, and hospital services will be identified. Standard practice during site reconnaissance is an air survey with a photoionization detector (HNU or similar instrument). The air survey would be performed around the site perimeter and throughout the site for safety purposes. Detection of releases to air during site reconnaissance may warrant further confirmation studies. Based on the Phase I study, it is expected that field activities will require only Level D health and safety protective measures.

#### 6.3.2 Task 2 - Geophysics

Multidepth EM and earth resistivity surveying will be performed around the site area perimeter to evaluate the potential presence of ground-water contaminant plumes and stratigraphic conditions. The number of stations and value of depth settings will be determined on the basis of field conditions. Results of the geophysics will be used to refine the specifications for locations, depths, and number of observation wells to be installed.

#### 6.3.3 Task 3 - Preparation of Final Sampling Plan

All data collected during Tasks 1 and 2 will be evaluated to finalize sampling and boring/well locations. The final sampling plan will be developed and submitted to NYSDEC for approval. The plan will include final sampling

locations, boring and well specifications, and reference pertinent portions of the QA/QC Plan. A final budget will be developed to complete the drilling and sampling program.

#### 6.3.4 Task 4 - Test Borings and Observation Wells

Because there are hundreds of feet of unconsolidated sediment underlying the site, EA recommends that the subsurface investigation be confined, at this time, to the shallow glacial aquifer to confirm if ground-water contamination resulting from the site is present. If such contamination is confirmed, then the investigations could be expanded to include the installation and sampling of monitoring wells completed to greater depths. Although a monitoring well was installed onsite by the SCDHS, it was completed with only a screw-on plug and not secured with a locking device. Based upon currently available information, EA recommends the installation of three test borings/observation wells. This work would be performed under the fulltime supervision of a geologist. It is anticipated that the hollow-stem auger drilling method will be used. Prior to the drilling of each boring/well, and at the completion of the last boring/well, the drilling equipment which comes in contact with subsurface materials will be steam-cleaned, as well as the split-spoon sampler after obtaining each sample. Soil sampling will be performed using a split-spoon sampler at approximately 5-ft intervals and at detected major stratigraphic changes. An HNU, or similar instrument, would be used to monitor the potential organic vapors emitted during drilling operations and from each soil sample. Samples of major soil/unconsolidated sediments will be collected for grain-size and/or Atterburg Limits analysis.

It is anticipated that the wells to be installed at this site will be completed in the unconsolidated sediment, approximately 10-20 ft below the ground-water table. Standard construction of such a well would include 10-20 ft of 2-in. diameter threaded-joint PVC screen and an appropriate length of PVC riser with a bottom plug cap, sand pack, bentonite seal, and protective surficial steel casing with a locking cap.

Upon completion and development of the wells by air surging/pumping, the vertical elevation of the upper rim of each well casing and the horizontal location will be surveyed in order to aid in evaluation of the ground-water flow direction.

For cost estimating purposes, it is assumed that:

- a. The depth of each of the three monitoring wells will be 120 ft below ground surface.
- b. The 3 wells will require 13 days to install, develop, and survey.
- c. All drill sites are accessible by truck-mounted drilling rigs as determined by the driller.
- d. There are no excessive amounts of cobbles/boulders which would increase drilling time.
- e. Steam-cleaning of drilling/sampling equipment will be performed at each boring/well location. The fluids will be discharged to ground surface.



- f. All drill cuttings, fluids, and development water will be left on, or discharged to, the ground surface in the immediate area of the activity.
  
- g. That permission from appropriate land owners to drill borings/wells on their property will be a simple process (expedited by the NYSDEC, if necessary) so that delays during field operations are not incurred.

#### 6.3.5 Task 5 - Sampling

All sampling and analysis will be conducted in accordance with the project QA/QC Plan. The analytical program for every water and sediment sample will include the 130 organic and 25 inorganic parameters listed in Statement of Work No. 784, New York State Department of Environmental Conservation Superfund and Contract Laboratory Protocol, January 1985. Also, all additional non-priority pollutant GC/MS major peaks will be identified and quantified. Major peaks will be considered as those whose area is 10 percent or greater than the calibrating standard(s). Based upon the currently available information, collection and analysis of the following numbers and types of samples is recommended:

- 3 Ground-water samples (one from each Phase II well).
  
- 4 Sediment samples from the well to be installed near the old industrial leachpools.

6.3.6 Task 6 - Contamination Assessment

EA will evaluate the data obtained during the records search and field investigation: prepare final HRS scores and documentation forms; complete EPA Form 2070-13; summarize site history, site characteristics, available sampling and analysis data; and determine the adequacy of the existing data to confirm release, and if there is a population at risk.

6.3.7 Task 7 - Remedial Cost Estimate

EA will evaluate remedial alternatives for the site and develop a list of potential options given the information available on the nature and extent of contamination. Approximate cost estimates for the selected potential remedial options will be computed. This work is not intended to be, or a substitute for, a formal cost effectiveness analysis of potential remedial actions.

6.3.8 Task 8 - Final Phase II Report

In accordance with current (January 1985) NYSDEC guidelines, the Phase II report will include:

- a. The results of the Phase II investigation, complete with boring logs, photos, and sketches developed as part of the Phase II field work.
- b. Final HRS scores with detailed documentation.
- c. Selected potential remedial alternatives and associated cost estimates.

In addition to the final Phase II report, the following raw data and resulting reduction would be provided to NYSDEC:

- a. geophysical
- b. well logs
- c. all sampling forms and data
- d. all analytical data
- e. chain-of-custody forms
- f. other pertinent collected information.

#### 6.3.9 Task 9 - Project Management/Quality Assurance

A Project Manager will be responsible for the supervision, direction, and review of the project activities on a day-to-day basis. A Quality Assurance Officer will ensure that the QA/QC Program protocols are maintained and that the resultant analytical data are accurate.

#### 6.4 PHASE II COST ESTIMATE

Based on the scope of work and assumptions described above, the estimated costs to complete the Phase II investigation of the EMR Circuits site are as follows:

Consultant Costs (including labor, direct costs, fee)	\$37,580
Drilling Contractor	47,740
Laboratory	<u>13,100</u>
Total	\$98,420

Appendix 1.1-1

RECEIVED MAR 17 1986

p. 1.1.1

RIVKIN, RADLER, DUNNE & BAYH  
100 GARDEN CITY PLAZA  
GARDEN CITY, NEW YORK 11530  
(516) 746-7500

TELEX: 645-074 • TELECOPIER: (516) 747-2843 • CABLE: AT LAW GRCY

275 MADISON AVENUE  
NEW YORK, N.Y. 10016  
(212) 696-9050

1575 EYE STREET, N.W.  
WASHINGTON, D.C. 20005  
(202) 289-8660

30 NORTH LA SALLE STREET  
CHICAGO, ILLINOIS 60602  
(312) 782-5680

WRITERS DIRECT DIAL  
(516) 228-4314

March 11, 1986

Ms. Ellen Bidwell  
Geologist  
EA Science & Technology  
R.D. 2, Box 91  
Goshen Turnpike  
Middletown, New York 10940

Re: EMR Circuits

Dear Ms. Bidwell:

This is in response to your letter of February 14, 1986 concerning the history of the above site. Your Interview Acknowledgement Form dated January 23, 1986 is completely inaccurate. Mr. Finkelstein has taken the time to completely correct and update the interview summary which is enclosed for your records.

Thank you for your attention to this matter.

Very truly yours,

  
RIVKIN, RADLER, DUNNE & BAYH

RSK:nd

cc: Mr. Neil Klein  
160 Peach Drive  
Roslyn, New York 11576

23d4

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: EMR Circuits

I.D. Number: 152105

Person Contacted: Ronald B. Finkelstein

Date: 23 January 1986

Title:

Affiliation: Finkelstein Realty Incorporated

Phone No.: (516) 747-5544

Address: 450 Jericho Turnpike  
Mineola, New York 11501

Persons Making Contact:  
EA Representatives:

William Going  
Ellen Bidwell

Type of Contact: In person

Interview Summary:

~~Mr. Finkelstein manages the property at 99 Marcus Boulevard for current owners (who are elderly and live in Florida, and are not identified by Mr. Finkelstein at this time). He realized in 1983 that EMR Circuits, Incorporated was discharging liquid wastes into a cesspool at the side of the building and that they were generally making a mess of the facilities with their waste disposal practices. He tried for months to evict them from the property and finally succeeded. He had to pay for complete renovation of the facility, i.e., removal of the two cesspools and surrounding soil, washdown of floors inside the building around floor drains, and ventilation of the building. Mr. Finkelstein does not know the whereabouts of the president of his former tenant, EMR Circuits Incorporated, but would like to find him so that insurance matters could be discussed. Mr. Finkelstein has kept the Suffolk County Department of Health Services (SCDHS) informed of his renovations and the SCDHS have indicated to him that they consider the facility clean above ground.~~

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.

Revisions (please write in corrections to above transcript):

The above interview summary is inaccurate and incomplete. Please see corrected interview summary attached.

Signature: Ronald B. Finkelstein

Date: 1/23/86

8.7.14

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: EMR Circuits I.D. Number: 152105

Person Contacted: Ronald B. Finkelstein Date: 23 January 1986

Title:

Affiliation: Finkelstein Realty Incorporated Phone No.: (516) 747-5544

Address: 450 Jericho Turnpike Mineola, New York 11501 Person Making Contact: EA Representatives:

Type of Contact: In person William Going Ellen Bidwell

Interview Summary:

Mr. Finkelstein manages the property at 99 Marcus Boulevard for current owners (who are elderly and live in Florida). When Mr. Finkelstein began managing this building in October, 1981, he visited the tenants and noticed that EMR Circuits, Inc. had a very filthy operation. Mr. Finkelstein was not aware that EMR was discharging liquid wastes into a cesspool. He repeatedly tried evicting EMR because of their failure to pay rent and their failure to properly maintain the building in satisfactory condition.

On March 14, 1984, the president of EMR Circuits was arrested, convicted and sentenced for dumping contaminated substances into a cesspool. This is the first time Mr. Finkelstein learned of EMR's illegal activities. Mr. Finkelstein did not remove the two cesspools and surrounding soil but arranged and paid for a washdown of floors and a cleanup of the inside of the building, including ventilating the building. EMR was subsequently evicted. Mr. Finkelstein does not know the

whereabouts of the president of his former tenant, EMR Circuits Inc., but would like to find him so that insurance matters can be discussed. Mr. Finkelstein has kept the Suffolk County Department of Health Services (SCDHS) informed of his cleanup activities and the SCDHS has indicated to him that they consider the facility clean above ground.



**COMMUNICATIONS RECORD FORM**

Distribution: ( \$ EMR Circuits, Inc. ) \_\_\_\_\_  
( ) \_\_\_\_\_ ( ) \_\_\_\_\_  
( ) Author

Person Contacted: Mr. Mike Komoroske Date: 22 OCT 86  
Phone Number: 518 457 0639 Title: Sanitary Engineer  
Affiliation: NYSDDEC Albany Type of Contact: Phone  
Address: Albany (50 Wolf Rd) Person Making Contact: Goring

Communications Summary: Mike indicates that the  
current owner of the property at 99 Marcus Blvd,  
in the Town of Smithtown, New York is  
Greenleaf Realty Co  
c/o Neil H. Klein  
175 Great Neck Rd  
Great Neck, NY 11021

\* NY LO No. 152105

(see over for additional space)

Signature: William Goring



9143

**COMMUNICATIONS RECORD FORM**

Distribution:  EMR Circuitry Inc (99 Macans Blvd)  
 \_\_\_\_\_,  \_\_\_\_\_  
 Author

Person Contacted: Jim Piny / John Gladys Date: 12/10/85  
Phone Number: 516 451 4634 Title: P.H. Engineer / Senior engineer <sup>12/11/85</sup>  
Affiliation: SCDHS Hwy. Mat. Mngt. Type of Contact: in person  
Address: 15 Horablock Place Person Making Contact: Loing / Ligotino  
Farmingville NY 11738

Communications Summary: EMR Circuits 152105

EMR Circuits was formerly Electromotive Research.  
Current claims not to be Electromotive --  
worker(?) bought out previous owner.

Site of concern is located at 99 Macans.  
A hidden pool, courtly installed well (u)  
in March 1985, sampled at a couple  
of depths.

EMR is currently at 89 Cabot St.  
Recently moved (within last year)  
No problem at this site.

(see over for additional space)

Signature: William Loing / J. Ligotino

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF SOLID AND HAZARDOUS WASTE  
 INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

*site submitted by [unclear] p2-43*

PRIORITY CODE: \_\_\_\_\_ SITE CODE: \_\_\_\_\_

NAME OF SITE: EMR CIRCUITS, INC. REGION: I

STREET ADDRESS: ~~89 GARDEN ST.~~ 99 MARCUS ST.

TOWN/CITY: HAUPPAUGE COUNTY: SUFFOLK

NAME OF CURRENT OWNER OF SITE: STEWART WOOD (FACILITY)  
KUKKA MANAGEMENT CORP. (LAND)

ADDRESS OF CURRENT OWNER OF SITE: 105 OSER AVE, HAUPPAUGE, N.Y.

TYPE OF SITE: OPEN DUMP  STRUCTURE  LAGOON   
 LANDFILL  TREATMENT POND

ESTIMATED SIZE: \_\_\_\_\_ ACRES

SITE DESCRIPTION:

CIRCUITBOARD MFG. FACILITY WITH DISCHARGE OF WASTES TO GROUND WATER

HAZARDOUS WASTE DISPOSED: CONFIRMED  SUSPECTED

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE

QUANTITY (POUNDS, DRUMS, TONS, GALLONS)

TRICHLOROETHANE

TRICHLOROETHYLENE

TETRACHLOROETHYLENE

ETHYL TOLUENE

XYLENE

TRIMETHYLBENZENE

TRICHLOROBENZENE

METHYLETHYL-KETONE

~~BUTANONE~~

COPPER

NICKEL

LEAD

CHROMIUM

PAGE

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

FEB, 19 81 TO PRESENT, 19 13-13

OWNER(S) DURING PERIOD OF USE: SAME (SINCE 9/29/82)

SITE OPERATOR DURING PERIOD OF USE: EMP CIRCUITS (STEW WOOD)

ADDRESS OF SITE OPERATOR: \_\_\_\_\_

ANALYTICAL DATA AVAILABLE: AIR  SURFACE WATER  GROUNDWATER   
SOIL  SEDIMENT  NONE

CONTRAVENTION OF STANDARDS: GROUNDWATER  DRINKING WATER   
SURFACE WATER  AIR

SOIL TYPE: SAND

DEPTH TO GROUNDWATER TABLE: ≈ 35'

LEGAL ACTION: TYPE: CRIMINAL STATE  FEDERAL

STATUS: IN PROGRESS  COMPLETED  JAIL SENTENCE FOR STEW WOOD UNDER AREA

REMEDIAL ACTION: PROPOSED  UNDER DESIGN

IN PROGRESS  COMPLETED

NATURE OF ACTION: NONE

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:  
HEAVY DISCHARGE TO GROUND THROUGH HIDDEN LEACHING POOLS FOR A YEAR PERIOD INTO CENTRAL PART OF DEEP RECHARGE AREA HAS CERTAINLY CAUSED SIGNIFICANT GROUNDWATER CONTAMINATION BUT NO PLUME EXPLORATION HAS YET BEEN ACCOMPLISHED.

ASSESSMENT OF HEALTH PROBLEMS:

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NEW YORK STATE DEPARTMENT OF HEALTH

NAME JAMES H. PIM

NAME \_\_\_\_\_

TITLE ASSOC. P.H. ENGINEER

TITLE \_\_\_\_\_

NAME SUFFOLK CO. DEPT OF HEALTH

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

TITLE \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_



COMMUNICATIONS RECORD FORM

Distribution: ( ) Emr Agency, Inc. ( ) \_\_\_\_\_  
( ) \_\_\_\_\_ ( ) \_\_\_\_\_  
( ) Author

Person Contacted: John Gladysz Date: 9/22/86

Phone Number: (516)451-430 Title: Sanitary Engineer

Affiliation: SCDHS Type of Contact: phone

Address: 15 Horseblock Place Person Making Contact: Rogers

Communications Summary: Confirmed that EMR moved to 89 Cabot St after leaving Marcus Blvd. Stewart Wood was still the owner. Since that time, company went out of business.

(see over for additional space)

Signature: John S. Rogers

Appendix 1.1-4  
2/1/82

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE  
INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a                      REGION: 1                      SITE CODE: 152105

NAME OF SITE : EMR Circuits, Inc.  
STREET ADDRESS: 89 Cabot Ct.  
TOWN/CITY:                                              COUNTY:                                              ZIP:  
Hauppauge                                              Suffolk

SITE TYPE: Open Dump-    Structure-X    Lagoon-    Landfill-    Treatment Pond-  
ESTIMATED SIZE:                                              Acres

SITE OWNER/OPERATOR INFORMATION:  
CURRENT OWNER NAME....: Stewart Wood(Facil.)Kinka Mang Corp.  
CURRENT OWNER ADDRESS.: 105 Oser Ave, Hauppauge, NY  
OWNER(S) DURING USE...: Same (since 9/28/82)  
OPERATOR DURING USE...: EMR Circuits (Stew Wood)  
OPERATOR ADDRESS.....:  
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From Feb 1981                      To Present

SITE DESCRIPTION:  
Circuitboard manufacturing facility with discharge of wastes to groundwater.

Jail sentence for Stew Wood under appeal

HAZARDOUS WASTE DISPOSED:	Confirmed-X	Suspected	QUANTITY (units)
TYPE			
trichloroethane			
t. ichloroethylene			
tetrachloroethylene			
ethyltoluene			
xylene			
trimethylbenzene			
trichlorobenzene			
methylethyl-keytone			
copper			
lead			
nickel			
chromium			

FYDEC Bureau of Hazardous  
Site Control

p. 2 of 2

SITE CODE: 152105

**ANALYTICAL DATA AVAILABLE:**

Air- Surface Water- Groundwater-X Soil- Sediment- None-

**CONTRAVENTION OF STANDARDS:**

Groundwater-X Drinking Water- Surface Water- Air-

**LEGAL ACTION:**

TYPE.: Criminal State- Federal-  
STATUS: In Progress- Completed-X

**REMEDIAL ACTION:**

Proposed- Under Design- In Progress- Completed-  
NATURE OF ACTION: None

**GEO TECHNICAL INFORMATION:**

SOIL TYPE: Sand  
GROUNDWATER DEPTH: about 35'

**ASSESSMENT OF ENVIRONMENTAL PROBLEMS:**

Heavy discharge to ground through hidden leaching pools for four year period into central part of deep recharge area has certainly caused significant groundwater contamination but no plume exploration has yet been accomplished.

**ASSESSMENT OF HEALTH PROBLEMS:**

Insufficient information

**PERSON(S) COMPLETING THIS FORM:**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NEW YORK STATE DEPARTMENT OF HEALTH

NAME.: James Pim  
TITLE: Assoc. Public Health Engr.

NAME.: Ronald Tramontano  
TITLE: Bur. of Toxic Sub. Asses.

NAME.: R.A. Olazagasti  
TITLE: Solid Waste Mgmt.Spec.

NAME.:  
TITLE:

DATE.: 01/24/85

DATE.: 01/24/85

Appendix 1.1-5

p. 1.12

**INTERVIEW ACKNOWLEDGEMENT FORM**

Site Name: EMR Circuits

I.D. Number: 152105

Person Contacted: Eileen Governale

Date: 23 January 1986

Title: Public Health Sanitarian

Affiliation: Suffolk County Department of Health Services

Phone No.: (516) 451-4633

Address: 15 Horseblock Place  
Farmingville, New York 11738

Persons Making Contact:  
EA Representatives:

Type of Contact: In person

William Going  
Ellen Bidwell

Interview Summary:

The Suffolk County Department of Health Services (SCDHS), represented by Eileen Governale, had long suspected that EMR Circuits was illegally discharging chemicals into their cesspools. These two shallow cesspools, hand dug and lined with concrete blocks, were installed by a pharmaceutical company previously occupying the premises. These cesspools were connected to a drain inside the building at 99 Marcus Avenue. It was this drain where the SCDHS caught Mr. Stew Wood illegally discharging the chemicals. Mr. Wood allegedly dumped thousands of gallons of solvents down the drain on weekends, and would then cement over the drain. The following weekend he would chip away the fresh concrete, dump more solvents, and reseal the hole. Excessive dumping into the two shallow cesspools resulted in liquids bubbling up through the cement driveway. This originally drew the attention of the SCDHS.

The SCDHS installed a 120 foot deep, 4 inch diameter monitoring well. Drillers found high vapors while installing the well. Mr. Finkelstein, manager of the property, took remedial steps and had the cesspools and surrounding soil removed. The floors of the building were washed down and the entire facility was ventilated. The two sanitary cesspools at the front of the building were sampled found to be clean, and left alone. The SCDHS considers the present facility to be clean from ground surface up.

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.

Revisions (please write in corrections to above transcript):

Discharge into leaching system initially occurred via floor  
drain which was covered by a 55 gal Drum. When this transgression was discovered  
+ company agreed to cease discharge by sealing floor drain, the company  
then resorted to the means of discharge described in your 1st AP.

Signature: Eileen Governale

Date: 2/21/86



COUNTY OF SUFFOLK

Appendix 1.1-6



Received from:  
Suffolk Co. Dept. of  
Health

DEPARTMENT OF HEALTH SERVICES

NOTICE OF VIOLATION: N.Y.S. ENVIRONMENTAL CONSERVATION LAW

EMR Circuits, Inc.  
99 Marcus Blvd.  
Hauppauge, New York 11788

Date 1 15-82  
SPDES NO. \_\_\_\_\_  
Lab No. 12-81-129  
Field No. 1 JW 12-16

Gentlemen:

On 12-16-81 samples of industrial waste were taken from your leaching pool in driveway via a tube through your floor drain. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES permit or in groundwater effluent standards:

- 1. Copper - 44 mg/L 6.
- 2. Iron - 3 mg/L 7.
- 3. Nickel - 2.3 mg/L 8.
- 4. Lead - 2.6 mg/L 9.
- 5. pH - 5 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) permit for that discharge is also a violation of the N.Y.S.E.C.L. and S.C. Sanitary Code, Art. 12.

If you do not already possess a valid SPDES permit for the above discharge, then you should apply immediately, through this office, for said permit.

Since the above noted violations may subject you to legal action, it is expected that these violations cease immediately. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John A. Gladysz  
Acting Senior Sanitarian  
Environmental Pollution Control

(SEE REVERSE SIDE FOR STANDARDS)

FIELD NO. 50-12-11  
 CL BY J. [unclear]  
 NAME, NOT INITIALS  
 DATE COL. 12-16-81  
 TIME COL. 4:15 a.m.

Received from:  
 Suffolk Co. Dept. of  
 Health

LABORATORY  
 LAB NO. 12-1-101  
 TYPE SAMPLE 110  
 DATE REC'D. 12/16/81  
 TIME REC'D. 10:45 AM  
 DATE COMPLETED 1/4/82  
 EXCEPT Cr<sup>6+</sup>

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

NAME OR FIRM EMR Circuits Inc. Electronics  
 ADDRESS OR LOCATION 49 Marcus Blvd Hempstead  
 POINT OF COLLECTION leaching pool in driveway 10' N/C 68g - ~~Sampled by tubing through~~  
 REMARKS INSTRUCTIONS results to John Gladysz Metals prescribed

TEST	RESULT	TEST	RESULT	TEST	RESULT
CONDUCT	umho	NITRATE-N		COPPER	44
pH		NITRITE		IRON	3.0
TEST	RESULT $\frac{mg}{liter}$	AMMONIA-N		MANGANESE	
ph. ALKALINITY		TKN		CHROMIUM	32
T. ALKALINITY		O-PO <sub>4</sub> -P		NICKEL	2.3
CHLORIDE				ZINC	1.0
FLUORIDE				MAGNESIUM	
CYANIDE		TOT. SOLIDS		CALCIUM	
		SUS. SOLIDS		LEAD	2.6
SULFATE		DISS. SOLIDS		CADMIUM	2.02
MBAS				SILVER	.04
C.O.D.				SODIUM	
T.O.C.				POTASSIUM	
				BARIUM	
		FIELD D.O.		Cr <sup>6+</sup>	
		FIELD TEMP			
		FIELD pH	5		
		FIELD COND.			

11-4-81 J.W. Discussed sampling of roof drain pool with Mr. Taub. He has run  $\frac{3}{8}$ " plastic tubing through floor drain and believes that end is in pool since 80' used. Has been unable to draw any liquid out with pumps he has tried. He said he would rent a pump if Department could suggest one which would work.

Mr. Taub expressed great reluctance to try to dig up pool because it is in driveway used by several businesses and because he feels any problem is due to previous owners of business.

He will be in again on Friday and would like to discuss sampling with Department

11/9/81

Spoke to Mr Taub told him the particulars of the pool in question & said that ~~department would cover~~ the pool. He requested copy of my sketch, att. of floor drainage & pool at 99 Marcus. Inspector will deliver this on 11/13/81 + check for floor drain sealing

11-16-81 J.W. Delivered copy of sketch of Floor drainage and pool at 99 Marcus Blvd, Hauppauge. Noted that floor drains are sealed - (1 temporarily - closest to pool) Mr. Taub presented a copy of an advertisement for a pump that will draw liquid through the tubing which he has snaked out through floor drain. He expects the catalogue by 11-18 and to immediately thereupon order a pump. ~~with~~ He expects to have pump no later than 11-27-81.

11-30-81 Mr. Taub will be in Wed 12-2 - on vacation

12-2-81 Mr. Taub showed shipping paper - pump sent from Texas 11-27 said will call for sample when pump arrives

12-9-81 notified that pump in - appointment to sample 12-16-81 9:00

12-16-81 J.W. ~~met~~ sample taken through tubing down floor drain

Received from: SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
 Suffolk Co. Dept. of INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL  
 Health 65 JETSON LA., PO BOX G, CENTRAL ISLIP, NY 11722  
 (516) 234-2622

*File*

NAME OF FACILITY <b>EMR Circuits Inc</b>		OWNER/OFFICER <i>Ken Phillips?</i>		PAGE 1 OF	
COMPANY NAME		CONTACT <b>Mr. Tyle</b>		TEL.	
PLANT ADDRESS <b>49 Marcus Blvd</b>		VILLAGE <b>Hempstead</b>	TOWN <b>Smithtown</b>	ZIP	
MAILING ADDRESS					
DATE <b>1-13-82</b>	TIME	ORIG. PERIODIC	<b>RE.</b>	WASTE	NO WASTE H&H SEWAGE SYSTEM PUBLIC PRIVATE

INDUSTRY **printed circuit boards**

PDES OR PDES PERMIT? YES NO PERMIT NO. 360 PERMIT? YES NO PERMIT NO.

CAVENGER TEL.

CAVENGER APPROVED YES NO PICK UP RECORDS AVAILABLE YES NO RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES NO

EATING SYSTEM - MFG NAME FUEL TYPE FIRING RATE

INCIN. NAME WASTE BURNED RATE

DRUM STORAGE	YES NO	NUMBER OF DRUMS STORED	TYPE OF MATERIAL STORED			
			WASTE	RAW	BOTH	
TANK STORAGE	YES NO	ABOVE GROUND UNDER GROUND BOTH	TYPE OF MATERIAL STORED			
			WASTE	RAW	BOTH	
PAVE TANKS BEEN REGISTERED	YES NO	CONDITION OF ABOVEGROUND TANKS			ANY ART. XII VIOLATIONS	
		GOOD	FAIR	POOR	YES	NO

The purpose of this reinspection is to determine Article XII status of this company.

Etching solution from Hunt Chemical they take used solution when 10 drums on hand. ~~They have~~   
*approximate 200-250H*

~~remains~~ of etching solution in plating room - 1" curb in plating room on interior walls  
 → plating 15-25gal tanks, 15-50gal tank, 18-250 tank, ~~15-250 tank~~  
 approximate 300 drums spent each in drum storage area - cement block etc.  
 - plans to remove spent material to get to 10 new etch - 10 spent etc.

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF ESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_ FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT	TITLE	INSPECTOR <i>J. Whitney</i>
-----------------------------	-------	--------------------------------

18-155: 6/81 8/81 TJK

LABORATORY

LAB NO 5-32-62

TYPE SAMPLE Incl.

DATE REC'VD. 5/5/82

TIME REC'VD. 11:00 AM

DATE COMPLETED chlo/min

Received from:  
Suffolk Co. Dept. of  
Health

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

(J.M.)

FOR FIRM EMR Circuits

ADDRESS OR LOCATION 99 Marcus Blvd Hempstead

POINT OF COLLECTION industrial pool (in driveway) 10' N/O (by

REMARKS/INSTRUCTIONS metals preserved results to J. Gladysz

TEST	RESULT	TEST	RESULT	TEST	RESULT
			<u>mg.</u> liter		<u>mg.</u> liter
CONDUCT	umho	NITRATE-N		✓ COPPER	<u><math>3.4 \times 10^{-2}</math></u>
P		NITRITE		✓ IRON	<u><math>2.2 \times 10^{-1}</math></u>
TEST	RESULT <u>m.g.</u> liter	AMMONIA-N		MANGANESE	
pt ALKALINITY		TKN		✓ CHROMIUM	<u>6.</u>
T. ALKALINITY		O-PO <sub>4</sub> -P		✓ NICKEL	<u><math>2.2 \times 10^{-1}</math></u>
CHLORIDE				✓ ZINC	<u>2.6</u>
FLUORIDE				MAGNESIUM	
CYANIDE		TOT. SOLIDS		CALCIUM	
		SUS. SOLIDS		✓ LEAD	<u><math>1.0 \times 10^{-2}</math></u>
SULFATE		DISS. SOLIDS		✓ CADMIUM	<u>.05</u>
BAS				✓ SILVER	<u>.06</u>
D.L				SODIUM	
D.C.				POTASSIUM	
		FIELD D.O.			
		FIELD TEMP			
		✓ FIELD pH	<u>2</u>		
		FIELD COND.	umho		

Above  
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Received from:  
Suffolk Co. Dept. of  
Health

NOTICE OF VIOLATION  
COUNTY OF SUFFOLK



Received from:  
Suffolk Co. Dept. of  
Health

PETER F. COHALAN  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

E M R Circuits, Inc.  
99 Marcus Blvd.  
Hauppauge, NY 11788

Date April 25, 1983  
SPDES NO. \_\_\_\_\_  
Lab. No. 3 83 261  
Field No. 3 JW 3 23

Gentlemen:

On March 23, 1983, samples of industrial waste were taken from your industrial pool 10' north of building. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

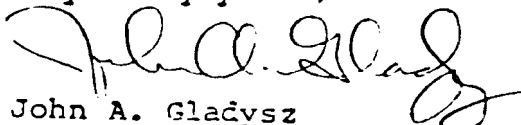
- |                  |     |
|------------------|-----|
| 1. Copper 5 mg/l | 6.  |
| 2. Iron 1.2 mg/l | 7.  |
| 3. Lead .8 mg/l  | 8.  |
| 4.               | 9.  |
| 5.               | 10. |

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred (\$500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

  
John A. Gladysz  
Environmental Pollution Control

(SEE REVERSE SIDE FOR STANDARDS)

18-247-2/82

FIELD NO. 3 JW 3-23 LAB NO. 3-83-261 DATE COMPLETED 3/30/83

NAME OR FIRM EMR Circuits Inc.  
 ADDRESS OR LOCATION 99 Marcus Blvd Hempstead N.Y.  
 POINT OF COLLECTION industrial pool 10' N of bldg  
 REMARKS/INSTRUCTIONS metals not pres results to J. Gladys

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	✓ COPPER	5. Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		✓ IRON	1.2
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				✓ CHROMIUM-TOT	.04
COD				✓ NICKEL	.7
TOC				ZINC	
				✓ LEAD	.8
				CADMIUM	
NITRATE-N				SILVER	
NITRITE				✓ CHROMIUM-+6	
AMMONIA-N					
TKN		✓ PH (FIELD)	neutral		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	J. Whitney	S.C.D.H.S.	3-23-83		11:40
2. POSSESSION BY	J. Whitney	S.C.D.H.S.	DATE 3-23-83	TIME 3:23	1:00 PM
3. POSSESSION BY			DATE - TIME	TO	DATE - TIME
4. RECEIVED LAB BY	g.m		DATE 3/23	TIME 12:00	
5. POSSESSION BY			DATE - TIME	TO	DATE - TIME
6. POSSESSION BY			DATE - TIME	TO	DATE - TIME

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THE HEARING OFFICER: At this time, I would like to open the matter in the Complaint against EMR Circuits, Inc., 99 Marcus Boulevard, Hauppauge, New York.

As the first order of business, I would like to introduce, into evidence as County's Exhibit 1, a Notice of Formal Hearing signed by myself. May 1st is the date of the letter, and it was received.

(Four-page Notice and receipt marked Department's Exhibit 1 in evidence as of this date.)

THE HEARING OFFICER: As the second order of business, for the record, my name is James L. Corbin. I am designated Hearing Officer in this matter. I have been so designated by the Commissioner of Health Services, Dr. David Harris.

Will those gentlemen present please identify themselves.

MR. GLADYSZ: I'm John Gladysz, and I'm an employee of the Health Department, and I am a Public Health Sanitarian.

MR. WHITNEY: My names is James Whitney.





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I am an employee of the Suffolk County Department of Health Services, Public Health Sanitarian.

MR. PERRELLA: My name is Pat Perrella. I am Environmental Enforcement Specialist for the Suffolk County Department of Health Services.

MR. AKRIS: Peter Akris, Assistant Public Health Engineer, Hazardous Materials Management Section.

MR. GUILBERT: Richard Guilbert, attorney for EMR Circuits, 290 Old Country Road, Mineola.

MR. WINGLER: Paul Wingler, consulting engineer for EMR, Inc. Address is P.O. Box 608, Kings Park, New York.

THE HEARING OFFICER: Let the record indicate that the time is now 11:22. The Hearing was to start at 10:00 a.m., and all interested parties have conferenced this matter, and I believe they have come up with some type of a stipulation. Mr. Perrella?

MR. PERRELLA: Mr. Hearing Officer, I believe we did come up with some terms which I'd like to put on the record, terms of a stipulation agreement. And after I recite the terms of this agreement, I would request



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you to ask the agents for EMR whether or not, one, they are authorized to speak for EMR in agreeing to these terms, and, two, whether or not they do agree to these terms.

THE HEARING OFFICER: So noted.

MR. PERRELLA: One, the first term is that the Respondent in this Hearing, EMR Circuits, Incorporated, agrees not to discharge from its industrial facility located at 99 Marcus Boulevard, Hauppauge, New York, any industrial waste and/or toxic or hazardous materials from its facility unless and until it has applied for and received a New York State Pollutant Discharge Elimination System Permit, also known as a SPDES;

Number two, that cessation of discharging shall be immediate as of this date, June 9, 1983;

Number three, the Respondent in this Hearing agrees immediately to hold all of its industrial waste rather than to discharge it and to hold and maintain receipts for any pickups of this waste. The receipts I have just referred to concern receipts for performance



1  
2 of removal of industrial waste by a licensed  
3 industrial waste scavenger, licensed by the  
4 New York State Department of Environmental  
5 Conservation. The Respondent agrees to provide  
6 the Department with copies of these receipts  
7 upon request.

8 Off the record.

9 (Discussion off the record.)

10 MR. PERRELLA: Respondent agrees to  
11 submit to the Department, to the care of  
12 Mr. Peter Akris of this Department, complete  
13 applications for a permit to store toxic or  
14 hazardous materials at the Respondent's facility.  
15 These applications shall be submitted to the  
16 Department by July 9, 1983.

17 By July 9 -- this is a new paragraph.

18 THE HEARING OFFICER: Five or four?

19 MR. PERRELLA: This will be five.

20 By July 9, 1983, the Respondent shall have sub-  
21 mitted to the Department, to the care of  
22 Mr. Peter Akris, an engineering report which  
23 details, among other things, all the industrial  
24 processes at the Respondent's facility, a  
25 description of all industrial discharges, if



1  
2 any, at the Respondent's facility, and if there  
3 are discharges, to where these discharges are  
4 routed, a description of all industrial wastes  
5 that are held, and the procedure by which they  
6 are removed from the site, a schematic of all  
7 plumbing which is interconnected to leaching  
8 facilities at the facility, including storm  
9 drains, cesspools, sumps, industrial leaching  
10 pools, et cetera. The schematic shall include  
11 the plumbing which is routed to the industrial  
12 leaching pool which is located on the north  
13 side of the Respondent's facility;

14 Six, by July 9, 1983, the Respondent  
15 shall have satisfactorily responded to --

16 MR. GUILBERT: I have a problem with  
17 the word "satisfactorily."

18 MR. PERRELLA: Okay.

19 MR. GUILBERT: Can we do this off the  
20 record?

21 MR. PERRELLA: Yes.

22 (Discussion off the record.)

23 MR. PERRELLA: Paragraph Number Six,  
24 by July 9, 1983, the Respondent, EMR Circuits,  
25 Incorporated, shall have completely responded



1  
2 to Mr. Peter Akris' letter of August 17, 1982,  
3 which, on that date, was addressed to the  
4 Respondent.

5 I wish now to offer -- excuse me, there  
6 is a correction. That was addressed to Mr. Paul  
7 Wingler, the engineer for the Respondent, with  
8 a carbon copy to Stuart Wood of EMR.

9 I wish now to introduce a copy of that  
10 letter into evidence.

11 THE HEARING OFFICER: Would you show it  
12 to Counsel first.

13 MR. PERRELLA: Yes.

14 (Handed.)

15 MR. GUILBERT: Off the record.

16 (Discussion off the record.)

17 THE HEARING OFFICER: Would you mark this  
18 in evidence as County's Exhibit Number 2, please.

19 (1-page copy of letter dated August 17,  
20 1982, marked Department's Exhibit 2 in evidence  
21 as of this date.)

22 THE HEARING OFFICER: Continue, please.

23 MR. PERRELLA: Mr. Hearing Officer, I  
24 believe that the aforementioned terms which I  
25 have just recited constitute the mean of the



1  
2 matter, which the Department and the Respondent  
3 has seen fit to come to some agreement on.  
4 There is a part of the agreement where we are  
5 in conflict at this point. That part concerns  
6 any imposition of a Civil penalty in this  
7 matter. Perhaps maybe we should ask the attorney  
8 for EMR whether or not the preceding terms,  
9 which I have just recited, are <sup>accessible</sup> accessible to  
10 them at this point, and then we will go on to  
11 the Civil penalty.

12 THE HEARING OFFICER: Yes. Okay,  
13 Mr. Guilbert, you heard Mr. Perrella's outline  
14 of the six items, and are you in agreement with  
15 what has been stated?

16 MR. GUILBERT: Yes. On behalf of EMR  
17 Circuits, by the authority of Stuart Wood, who  
18 is, I believe, President of the Corporation, I  
19 am authorized here to enter into a stipulation  
20 settlement as to these six items enumerated by  
21 Mr. Perrella.

22 THE HEARING OFFICER: Correct. And also  
23 present with you is Mr. Wingler, the engineer,  
24 who will be acting on his behalf with regards  
25 to the SPDES permits and the questions that



have been raised, and you feel that the timetable is both fair and workable?

MR. WINGLER: Correct.

MR. GUILBERT: Correct.

THE HEARING OFFICER: Fine.

MR. PERRELLA: Mr. Hearing Officer, presenting the Department's view, I feel that just the remedial action that apparently the Respondent EMR has agreed to, I don't feel that is sufficient to address the past history of this case.

It is the Department's position that an Order on Consent had been entered into over a year ago, on April 26, 1982, at which time the Respondent basically agreed to the same conditions that were just enumerated here, and over a year's period of time has gone by. And the Department's position is that these conditions have not been met.

In addition, it's the Department's position that there are -- there is evidence of possible other violations that we could present evidence of. For these reasons, we are asking for the imposition of Civil penalty in



1  
2 any resolution of this case, in any  
3 agreement that the Commissioner sees  
4 countersign. And I am asking for the  
5 amount Civil penalty that was addressed in  
6 formal Hearing Notice for this Hearing.

7 MR. GUILBERT: Your Honor, if

8 THE HEARING OFFICER: Hold it

9 MR. GUILBERT: I'm sorry.

10 THE HEARING OFFICER: And the  
11 noted as 2400?

12 MR. PERRELLA: 2,400.

13 THE HEARING OFFICER: Counsel  
14 you will.

15 MR. GUILBERT: Your Honor, if  
16 with regard to the situation at EMR C  
17 Inc., I would like to state, for the  
18 that for over the past year, EMR Circ  
19 retained Mr. Paul Wingler as their co  
20 to try and resolve both any problems  
21 of making a SPDES application, Artic  
22 application, and all other environmen  
23 lems that may have occurred at the pl

24 EMR Circuits purchased, from  
25 Bank of North America approximately a





1  
2 all the equipment and goods of Electric Motor  
3 Research Corp., which was the prior party in  
4 this building. It is my understanding that  
5 Electric Motor Research Corp. allowed a very  
6 terrible pollution situation to exist, fully  
7 contaminated one of the industrial cesspools.

8 When EMR Circuits took over the operation  
9 approximately a year and two months ago, the  
10 pollution situation became eminently clear to  
11 Mr. Wood, and the Department of Environmental  
12 Control also noted to Mr. Wood the difficulties  
13 that he would have.

14 Mr. Wood proceeded to have the indus-  
15 trial leaching pool cleaned by a scavenger  
16 and tried to take whatever steps he could to  
17 comply. One of the steps he took was to retain  
18 Mr. Wingler. One of the problems, I think, has  
19 really manifested the bringing about this formal  
20 hearing is that the fact that it has been almost  
21 impossible for Mr. Wood to decide what approach  
22 he will use in this facility to control the  
23 environmental situation.

24 I have been advised by Mr. Wingler that  
25 at one time it was thought that everything would



1  
2 become a hold and haul operation. Then Mr. Wood  
3 felt that he could buy some equipment which  
4 would eventually purge his discharges of copper  
5 and other contaminants. However, it appeared  
6 that this equipment was unfeasible and, there-  
7 fore, was not purchased.

8 To some extent, Mr. Wood has suffered  
9 from a case of waffling as to what approach he  
10 will take in the plant. This may have caused  
11 some delays in getting to this point in time.  
12 However, after speaking to Mr. Wingler today,  
13 he indicates to me that the situation at EMR  
14 has solidified, and he feels that a comprehen-  
15 sive plan is now pretty much in order.

16 It's my understanding that the plan  
17 would be an application for a SPDES permit for  
18 certain discharges, and other discharges would  
19 be totally held and hauled pursuant to an  
20 Article 12 permit.

21 It is our intention, at this time, to  
22 go forward with both the SPDES permit and the  
23 Article 12 permit and to haul the more serious  
24 contaminants used in the plant.

25 Further, Mr. Wood has indicated to me



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that he is in a tight financial situation, as many small corporations are on the Island. I feel, based upon that situation, that a lesser than \$2400 Civil penalty would be in order, and I would request that whatever Civil penalty is imposed that it be suspended pending the compliance with the requirements contained herein.

If Mr. Wood is capable of responding within 30 days at this point in time and so does, I feel at that point in time we should consider suspension of any Civil penalty and allow the -- consider the funds that would be expended by Mr. Wood both for engineering services, any effort with regard to application for SPDES permits, Article 12 permits, and upgrading the facility to comply with these requirements would be best spent in the plant rather than being dissipated as a Civil penalty.

I might add that it took some time to get here, and Mr. Perrella indicated that the April 26, 1982 Consent Order has not been complied with. I do not wish to make a great issue of that, Your Honor. However, there has



1  
2 been some correspondence and discussions between  
3 the County and the engineer for EMR, and I  
4 believe that these efforts by the engineer for  
5 EMR have been with a view towards meeting the  
6 requirements of that prior Consent Order.

7 I ask the Court to consider these mat-  
8 ters, and I would also ask for the leniency of  
9 the Court towards EMR on the basis that they  
10 have made some effort, taking a situation which  
11 was inherited by them and trying to remedy it.

12 THE HEARING OFFICER: I just have a few  
13 questions to make certain that my notes are  
14 correct.

15 You indicated that EMR had purchased  
16 this from Electric Motor Research Corp. approx-  
17 imately one year and two months ago, did you  
18 say?

19 MR. GUILBERT: I don't have any records  
20 with me. I believe it's about 14 months ago.

21 THE HEARING OFFICER: And you had  
22 entered into a stipulated agreement with Mr.  
23 Perrella in his office on April 26th of this  
24 year? You did not give me a year.

25 MR. PERRELLA: Of '82.



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MR. GUILBERT: Of '82.

MR. WINGLER: I would like to add, just for the clarity of the record, that we are willing to stipulate that the -- an application, Article 12 application, be submitted to Mr. Akris by July 9th. I would perhaps like to refer to that as a revised application, because the original application, plans, forms, were submitted June 18, 1982. I think that is important, and it has -- the permit has not been issued, because we did not fully respond to Mr. Akris' request for a completion due to internal thinking and reshaping within the company.

But an application was made. The kit was submitted June 18, 1982.

MR. PERRELLA: Mr. Hearing Officer, if I just may, muddying the waters here, the applications were submitted as were required in the April, '82 Orders on Consent. However, and the Department is not denying that, that the Order on Consent requested full, complete applications. and that when they were received, one, they were received late, beyond the date entered



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into the Order on Consent --

MR. WINGLER: That's not correct.

MR. PERRELLA: We are prepared to prove that.

MR. WINGLER: I want to state emphatically that this application was submitted on time because --

THE HEARING OFFICER: Excuse me, would you please swear in Mr. Wingler for the record.

(Paul Wingler was duly sworn by the Notary Public.)

THE HEARING OFFICER: Rather than go over your testimony thus far, Mr. Wingler, the testimony that you have given thus far, is that, to your knowledge, a true and factual statement?

MR. WINGLER: Yes, it is.

THE HEARING OFFICER: If you would like to present any and all information and evidence to this Hearing Officer, I would entertain anything on your behalf.

Off the record.

(Discussion off the record.)

THE HEARING OFFICER: We had an off-th



1  
2 record discussion as to these dates and  
3 correspondence that may or may not have taken  
4 place.

5 Would you like to sum up what was said?

6 MR. WINGLER: Just with respect to my  
7 testimony, I was in error in that, as I recall  
8 the application was submitted after the stipu-  
9 lated date, but to the best of my recollection  
10 it was with a verbal permission due to schedule  
11 within my office.

12 THE HEARING OFFICER: And the verbal  
13 permission came from whom?

14 MR. WINGLER: Mr. Perrella.

15 THE HEARING OFFICER: Is there anything  
16 else that you would like to present to the  
17 Hearing Officer at this time, or any documenta-  
18 tion, or is there any documentation you would  
19 like to forward to me until I receive the tran-  
20 cripts and make my recommendation to the  
21 Commissioner?

22 MR. PERRELLA: Being that Mr. Wingle  
23 has made an issue of having submitted the ap-  
24 plications on time, I think we're going to have  
25 to try to rebut that. And I would like to,



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2 this point, rather than asking Mr. Peter Akris  
3 to testify, just to introduce letters that  
4 were submitted to the Respondent's facility  
5 indicating that we were in need of information  
6 and that they were in violation.

7 THE HEARING OFFICER: Before we begin,  
8 Mr. Perrella, then do you recollect the tele-  
9 phone conversation that Mr. Wingler alluded to?

10 MR. PERRELLA: I have, in my records,  
11 a memo indicating that Paul Wingler called me  
12 after the date that he had violated -- the  
13 Respondent, that he has violated the Order on  
14 Consent, and that he, at that time, informed me  
15 that the engineering report would be submitted  
16 by June 21, '82. I did not give permission to  
17 waive any of the conditions of the Order on  
18 Consent. I just said send the -- what we  
19 were looking for at that time was compliance.  
20 And if they had been sent by June 21st and a  
21 whole year hadn't gone by, I don't think the  
22 Department would have pressed for a violation  
23 of that Order on Consent. But it was a viola-  
24 tion on that Order on Consent, and in no way  
25 was it excused.





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2 And I did receive, after the date when  
3 that Order -- application was supposed to be  
4 submitted, after it had gone by, I had received  
5 a memo, or rather a communication from Mr. Wing-  
6 ler saying it was coming June 23rd. The  
7 Department is alleging he was still in viola-  
8 tion at the time I said "Okay" and that send  
9 it on. We never did receive --

10 THE HEARING OFFICER: Again, the date  
11 that it was to appear in your office was --

12 MR. PERRELLA: May 14, 1982.

13 THE HEARING OFFICER: Now, you wish to  
14 have Mr. Akris sworn in?

15 MR. PERRELLA: I think we just -- we  
16 have the copies of the letters.

17 <sup>WINGLER</sup>  
MR. AKRIS: What are you trying to  
18 establish?

19 THE HEARING OFFICER: Off the record.

20 (Discussion off the record.)

21 MR. PERRELLA: I don't think it's  
22 necessary to submit any more information.

23 THE HEARING OFFICER: Okay, Counselor,  
24 is there anything else you would like to pro-  
25 vide me with?



1  
2 MR. GUILBERT: No, Your Honor. At this  
3 time I will rely on the discretion of the Court.

4 THE HEARING OFFICER: Thank you very  
5 much. If there is nothing further brought  
6 before this Hearing Officer, I would like to  
7 close the Hearing at this time.

8 (Time Noted: 11:50 A.M.)  
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SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
 INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL  
 65 JETSON LA., PO BOX G, CENTRAL ISLIP, NY 11722  
 (516) 234-2622

Appendix 1.1-8  
 8/13

Received from:  
 Suffolk Co. Dept of Health

NAME OF FACILITY <i>EMR Products Inc</i>		OWNER/OFFICER	
COMPANY NAME <i>99 Marcus Blvd</i>		CONTACT <i>Julia Osari</i>	
PLANT ADDRESS <i>Hemp</i>	VILLAGE	TOWN <i>Suffolk</i>	ZIP
MAILING ADDRESS			

DATE <i>7-13-81</i>	TIME	ORIG. <input checked="" type="radio"/> PERIODIC <input checked="" type="radio"/> RE.	WASTE	NO WASTE	<input checked="" type="radio"/> HBH	SEWAGE SYSTEM	PUBLIC PRIVATE
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INDUSTRY <i>printed circuit boards</i>	
DES OR DES PERMIT? YES <input checked="" type="radio"/> NO	PERMIT NO.
360 PERMIT? YES <input type="radio"/> NO	PERMIT NO.

AVENGER <i>RGM-</i>	TEL.
AVENGER APPROVED YES <input type="radio"/> NO	PICK UP RECORDS AVAILABLE YES <input type="radio"/> NO
RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES <input type="radio"/> NO	

HEATING SYSTEM - MFG NAME	FUEL TYPE	FIRING RATE

INCIN. NAME	WASTE BURNED	RATE

DRUM STORAGE YES <input type="radio"/> NO	NUMBER OF DRUMS STORED	TYPE OF MATERIAL STORED WASTE RAW BOTH
ANK STORAGE YES <input type="radio"/> NO	ABOVE GROUND UNDER GROUND BOTH	TYPE OF MATERIAL STORED WASTE RAW BOTH
AVE TANKS BEEN REGISTERED YES <input type="radio"/> NO	CONDITION OF ABOVEGROUND TANKS GOOD FAIR POOR	ANY ART. XII VIOLATIONS YES <input type="radio"/> NO

*Ms Osari has no knowledge of cleanup that may have occurred over weekend at all.*

*Attempted to call PAW, line was consistently busy. I will call in AM*

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF ESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_ . FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT <i>Osari</i>	TITLE	INSPECTOR <i>Peter J. Gervasi</i>
---------------------------------------------	-------	--------------------------------------

COUNTY OF SUFFOLK

Received from:  
Suffolk Co. Dept. of  
Health

p 2-13



DEPARTMENT OF HEALTH SERVICES

Date: June 28, 1982

Mr. Paul A. Wingler, P.E.  
P.O. Box 608  
Kings Park, N.Y. 11754

- Article 12 Plans for:
- Above Ground Tank(s)
  - Underground Tank(s)
  - Drum/Bulk Storage
  - Other
  - As-Built Drawings
  - Contract Drawings

Hazardous Materials Management

S.C.D.H.S. Job No.: HM 32-71

ACKNOWLEDGEMENT OF RECEIPT

Your submission pertaining to the above has been received. It will be reviewed and processed as promptly as possible.

Company Name

Installation Address

LMR Circuits, Inc.

99 Marcus Blvd.  
Hauppauge, N.Y. 11788

It is your responsibility to determine and comply with the requirements of municipal and other state codes, ordinances, rules or regulations, which also apply to this installation. These include state industrial code rules, state conservation rules, state and municipal zoning and building codes, as well as municipal water pollution control codes, etc.

You are also required to instruct or provide instruction for the operator(s) of the installation so that it will be maintained and operated in conformance with applicable water pollution control codes.

Questions relating to this application or submission should be directed to Mr. Peter R. Akras, Ass't. Public Health Engineer, 15 Horseblock Pl., Farmingville, N.Y. 11738, telephone (516)451-4649.

PRA/rt

cc: Applicant - Stewart Worth

Department of Health Service  
 Industrial Waste and Hazardous  
 Materials Control Section  
 65 Jetson Lane  
 Hauppauge, New York 11787  
 234-2622

Received from:  
 Suffolk Co. Dept. of  
 Health

LETTER OF TRANSMITTAL

1313

DATE	JOB NO.
ATTENTION <i>Mr. Lutz</i>	
RE <i>Part 360 application</i>	

*NYSDEC Region 1*  
*Bldg #40*  
*Sony Stony Brook*

GENTLEMEN:

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

Shop drawings     Prints     Plans     Samples     Specifications

Copy of letter     Change order     \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
			<i>Industries</i>
			<i>EMR 'Circuits' file</i>

THESE ARE TRANSMITTED as checked below:

- For approval                       Approved as submitted                       Resubmit \_\_\_\_\_ copies for approval
- For your use                               Approved as noted                               Submit \_\_\_\_\_ copies for distribution
- As requested                               Returned for corrections                               Return \_\_\_\_\_ corrected prints
- For review and comment                       \_\_\_\_\_
- FOR BIDS DUE \_\_\_\_\_ 19 \_\_\_\_\_     PRINTS RETURNED AFTER LOAN TO US

REMARKS *Application sent for routine processing.*  
*Two copies of \_\_\_\_\_ are enclosed, one*  
*copy has been retained by SC DHS.*

COPY TO \_\_\_\_\_

SIGNED: *[Signature]*

Appendix 1.1-9

Received from:  
Suffolk Co. Dept. of  
Health

pl/4

STATE OF NEW YORK: COUNTY OF SUFFOLK  
DEPARTMENT OF HEALTH SERVICES

X

In the Matter of the Complaint

- against -

EMR Circuits, Inc.  
99 Marcus Boulevard  
Hauppauge, NY 11788

NOTICE OF  
FORMAL HEARING

Respondent.

Under and Pursuant to the Public Health Law  
of the State of New York, the Sanitary Code  
of the County of Suffolk and the Statutes  
of the State of New York and the Laws and  
Ordinances of the County of Suffolk.

X

TO:

EMR Circuits, Inc.  
99 Marcus Boulevard  
Hauppauge, NY 11788

PLEASE TAKE NOTICE:

THAT YOU ARE DIRECTED TO APPEAR at the office of the  
Department of Health Services of the County of Suffolk at  
225 Rabro Drive East, Hauppauge, New York, Room #300  
on the 9th day of June, 1983 at 10:00 a.m.  
in connection with certain alleged violations of Article 12 &/or 2  
of the Suffolk County Sanitary Code and/or ordinances, rules  
regulations and orders promulgated thereunder, to wit:

1. That on January 12, 1983 and May 5, 1982 the  
Respondent did discharge toxic or hazardous materials without  
a New York State Pollutant Discharge Elimination Systems (SPDES)

p. 2 of 6

Permit and that these discharges exceeded New York State effluent standards in violation of Section 1205 of Article 12 (discharge of metals to subsurface leaching pool);

2. That on August 4, 1982 the Respondent did operate a storage facility for the storage of toxic or hazardous materials without a permit to operate in violation of Section 1207 of Article 12;

3. That on May 15, 1982 the Respondent did violate Paragraph No. 5 of the Order on Consent agreement No. IW 82-20 which the Respondent did enter into with the department on April 26, 1982 (Respondent failed to submit approvable applications for a permit to operate a storage facility for toxic or hazardous materials). The aforementioned Order on Consent agreement provided for a Four Hundred (\$400) Dollar suspended civil penalty which was suspended contingent upon the Respondent's compliance with the terms and conditions of the agreement.

WHEREFORE, the department, as plaintiff in this matter, demands:

(a) findings of violation in the above numbered allegations;

(b) an Order requiring the payment of One Thousand (\$1,000) Dollar civil penalty for the two violations of Section 1205, as detailed in Paragraph 1 above;

13.16

(c) an Order requiring the payment of Five Hundred (\$500) Dollar civil penalty for the violation of Section 1207, as detailed in Paragraph No. 2 above;

(d) an Order requiring the payment of Five Hundred (\$500) Dollar civil penalty for the violation of the Order on Consent agreement No. IW 82-20, as detailed in Paragraph No. 3 above;

(e) an Order requiring payment of the Four Hundred (\$400) Dollar suspended civil penalty which is provided for in Order on Consent agreement No. IW 82-20 as detailed in Paragraph No. 3 above;

(f) an Order requiring immediate cessation of all violative discharges of toxic or hazardous materials at the Respondent's facility;

(g) an Order requiring the Respondent to immediately submit a complete approvable application for a permit to operate a storage facility for its storage of toxic or hazardous materials pursuant to the provisions of Article 12 (any questions concerning permit application requirements should be addressed to Mr. Peter Akras of this department at phone number (516) 451-4649); and

(h) such other and further relief that may be necessary and appropriate under the circumstances.

THAT, each day of violation constitutes a separate and distinct violation subject to a civil



*p. 1/4/6*

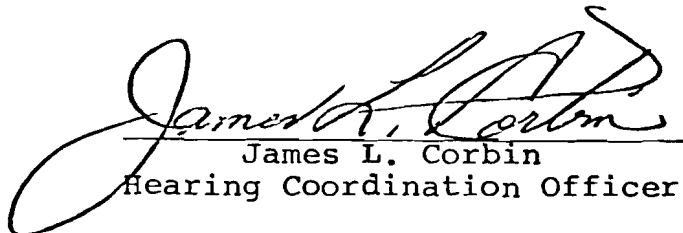
penalty not to exceed the sum of Five Hundred (\$500) Dollars for each day of violation, as prescribed by Article 2, Section 218, Paragraph 2 and 5 of the Sanitary Code of Suffolk County and Section 309 of the Public Health Law of the State of New York.

THAT, you may appear with or without counsel and you may produce any witnesses and evidence in your behalf.

THAT, you may contact the Hearing Coordination Officer at (516) 348-2778, if you have questions relative to the hearing or require additional information.

PLEASE TAKE NOTICE:

THAT, upon your failure to appear, the hearing may be held in your absence and a determination may be made, and such proceedings instituted under the law, either administrative, civil or criminal, as may be deemed necessary and appropriate in the circumstances.

  
James L. Corbin  
Hearing Coordination Officer

DATED:

Hauppauge, NY

*J. 1/5/86*

NAME OF FACILITY <b>EMR Circuits Inc.</b>		OWNER/OFFICER <b>Pres. Stuart Wood</b>	PAGE 1 OF
COMPANY NAME		CONTACT <b>Mrs. Pat Osani</b>	TEL. <b>273-8880</b>
PLANT ADDRESS <b>99 Marcus Blvd</b>	VILLAGE <b>Hauppauge</b>	TOWN <b>Smithtown</b>	ZIP <b>11788</b>
MAILING ADDRESS			

DATE <b>10-4-82</b>	TIME	ORIG. PERIODIC <input checked="" type="radio"/> RE.	WASTE	NO WASTE <input checked="" type="radio"/> H&H	SEWAGE SYSTEM	PUBLIC <input checked="" type="radio"/> PRIVATE
------------------------	------	-----------------------------------------------------	-------	-----------------------------------------------	---------------	-------------------------------------------------

INDUSTRY <b>plating + P.C. boards</b>			
PDES OR PDES PERMIT? YES <input checked="" type="radio"/> NO	PERMIT NO.	360 PERMIT? YES <input checked="" type="radio"/> NO	PERMIT NO.

SCAVENGER		TEL.	
CAVENGER APPROVED YES NO	PICK UP RECORDS AVAILABLE YES NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES NO	

HEATING SYSTEM-MFG NAME	FUEL TYPE	FIRING RATE

CIN. NAME	WASTE BURNED	RATE

DRUM STORAGE <input checked="" type="radio"/> YES NO	NUMBER OF DRUMS STORED	TYPE OF MATERIAL STORED WASTE RAW BOTH			
TANK STORAGE <input checked="" type="radio"/> YES NO	ABOVE GROUND UNDER GROUND BOTH	TYPE OF MATERIAL STORED WASTE RAW BOTH			
SAFE TANKS SEEN REGISTERED YES NO	CONDITION OF ABOVEGROUND TANKS GOOD FAIR POOR	ANY ART. XII VIOLATIONS YES NO			

The purpose of this reinspection is to determine if the following remaining conditions of consent order I W 82-20 have been met.

1. Industrial waste leaching pool to be pumped by licensed industrial waste scavenger, contaminated soil at bottom of pool to be removed. - No, observed pool to still contain liquids.
2. Pool to be filled in with earth. Work to be completed by 10-1-82. No, observed pool not to be filled in 10-4-82

Mrs. Osani showed me a request for a 20 day extension on cleaning + backfilling of contaminated pool. Request was from Paul Wingler, dated 9-27-82. Mrs. Osani showed me contract with Chem. Mgmt.

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF ESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_ . FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON EC. REPORT <i>Osani</i>	TITLE <b>Sec. Pres</b>	INSPECTOR <i>James D. Whitney</i>
--------------------------------------------	---------------------------	--------------------------------------

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES

MEMORANDUM

Received from:  
Suffolk Co. Dept. of  
Health

TO: Jim Corbin  
FROM: Pat Perrella  
DATE: 7/29/83  
RE: EMR Circuits - Formal Hearing Compliance

Attached find a copy of Peter Akras' letter of July 20, 1983 to Paul Wingler, P.E., the engineer for EMR Circuits.

It is the opinion of this Bureau that EMR Circuits has not complied with the terms of the Commissioner's Order. Therefore, I must recommend that the full amount of civil penalty be assessed.

PP:daf

Attachment

cc: P. Akras  
G. Watt  
J. Gladysz

p. 1 of 9

Received from:  
Suffolk Co. Dept. of  
Health

July 20, 1983

Mr. Paul Wingler, P.E.  
P.O. Box 608  
Kings Park, N.Y. 11754

Re: E M R Circuits, Inc.  
SCDHS Job No. HM 82-71 (Revised)

Dear Mr. Wingler:

I have reviewed your report and revised drawing for the subject site for compliance with the Commissioner's Order dated June 17, 1983 and for compliance with Article 12 of the Suffolk County Sanitary Code. A copy of the Commissioner's Order is enclosed.

The following items in the Commissioner's Order have not been complied with:

1. An inspection of the subject site by Eileen Governale of this Department on July 11, 1983 revealed a discharge of "soapy water" to the industrial leaching pool on the north side of the building. This pool is connected to a floor drain in the plate washing area. No industrial wastewater is allowed to be discharged without a N.Y.S. SPDES permit. Samples taken from this pool at the time of the inspection are in the process of being analyzed. This discharge is in direct violation of items #1, 2 and 3 of the Commissioner's Order.
2. Item #6 in the Commissioner's Order requires a response to my letter of Aug. 17, 1982 which requests, among other things, a product bulletin on the type of impervious concrete coating that will be applied to the floor in the wet process areas. As of this date, this information has not been submitted.

27-19

Mr. Paul Wingler, P.E.

- 2 -

July 20, 1983

In addition to the above, I have the following comments on the report and plans:

1. The report states that a 4000 gallon wastewater storage tank was installed in May, 1983. This tank was installed without a permit to construct required by Section 1206 of Article 12. Before a permit can be issued specifications on the tank must be submitted including materials of construction, piping, spill control measures and methods of waste transfer.
2. A review of the inspection report on file notes that this tank is 6000 gallon capacity rather than 4000 gallons. If this is the case, then the containment area must be increased accordingly. The report must provide information on the quantity of wastewater generated to insure that the tank capacity is adequate.
3. Based upon the information shown in the drawing, the capacity of the wet process room is 3025 gallons rather than 3300 gallons. This is less than the 110% required by Article 12.
4. The inspection report also notes that there are two 200 gallon waste scrub water tanks not shown on the plans. These tanks must also be contained.
5. All process or holding tanks in excess of 60 gallons and all drum storage areas in excess of 5 drums must be registered on the enclosed form. The registration fee is \$25 for each tank or drum storage area. In addition, an application for a permit to construct must be submitted for the waste holding tank with a filing fee of \$100.
6. The floor drain in the plate washing area must be sealed until a SPDES permit has been issued.
7. The concrete berm for the drum storage area must extend along the adjacent walls.
8. If the wet process room is serviced by a sprinkler system, then the sprinklers must be fitted with head deflectors or the open tanks must be fitted with automatic covers to prevent overflow in case of a fire.

Received from INTER-OFFICE COMMUNICATION  
Suffolk Co. Dept. of County of Suffolk  
Health

Date 7/12/83 #3019

TO: EMA FILE

FROM: Peter Benelle  
(Tie Line Phone No. 77- )

Subject: "Commissioner Order" ~~is~~ L.M.R. as result of Formal Hearing

Re: Determination of whether EMA is in Compliance with  
Commissioner Order (unknown)

1) Engineering report was received by this Dept on July 11, 1983  
( still awaits review of Peter also to determine  
if approvable )

2) Peter Benelle inspection of July 8, 1983  
revealed "pink" colored liquid in pool and  
small "drip" from discharge pipe. Sample taken,  
(awaiting sample results to determine if still  
discharging + extent of leak)

\* Report to Jim Corbin with final determination  
so that Civil Penalty can be determined

PS

~~Spoke with Jim Corbin / set up grant to assess \$1400 Civil  
fine rather than await results of sample analysis + Peter's determination  
if engineering report of sufficient to find they will be assessed  
in separate report. PS~~

Received from:

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

p 4/9

NAME OF FACILITY <b>EMR Circuits, Inc</b>		OWNER/OFFICER		PAGE 1 OF
COMPANY NAME		CONTACT <b>Patricia Osani</b>		TEL. <b>273-8880</b>
PLANT ADDRESS <b>99 Marcus Blvd</b>	VILLAGE <b>Hempstead</b>	TOWN <b>Peter (see Tred)</b>	ZIP	
MAILING ADDRESS				
DATE <b>7-8-83</b>	TIME	ORIG. <b>PERIODIC</b>	RE <b>RE</b>	WASTE <b>NO</b>
		NO <b>WASTE</b>		SEWAGE SYSTEM <b>H&amp;H</b>
				PUBLIC <b>PRIVATE</b>

INDUSTRY <b>PC Bd. mfg</b>				
PDES OR PDES PERMIT?		YES <b>NO</b>	PERMIT NO.	<b>360 PERMIT?</b> YES <b>NO</b> PERMIT NO.

SCAVENGER - <b>no pickups in recent months</b>	TEL.	
SCAVENGER APPROVED YES <b>NO</b>	PICK UP RECORDS AVAILABLE YES <b>NO</b>	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES <b>NO</b>

HEATING SYSTEM-MFG NAME		FUEL TYPE	FIRING RATE
CIN. NAME		WASTE BURNED	RATE

DRUM STORAGE <b>YES</b> <b>NO</b>	NUMBER STORED INDOORS <b>25</b> OUTDOORS	TYPE OF MATERIAL STORED WASTE <b>3</b> RAW <b>25</b>
STORAGE TANKS <b>YES</b> <b>NO</b>	NUMBER OF TANKS ABOVEGROUND <b>3</b> UNDERGROUND	TYPE OF MATERIAL STORED WASTE <b>2-200 gal</b> RAW
OPEN PROCESS TANKS <b>YES</b> <b>NO</b>	NUMBER OF OPEN PROCESS TANKS <b>N 38 small tanks</b>	ANY ART. XII VIOLATIONS <b>YES</b> <b>NO</b> <b>Drum + Tank storage not in place</b>

1. PC Bd. operation small - All Tanks lined material (polyprop or plastic) + small capacity (ie. between 1-30 gallon).
2. Suggest <sup>sealing</sup> floor drain with a more permanent substance to assure no further discharge until SPDES permit in force.
3. Drum + Tank storage areas do not appear to meet Art XII specs w/ respect to terms + accessibility to drums.
4. Dumpster bottom rusted through. No <sup>recent</sup> staining or to indicate waste disposed of in this manner.
5. ~~5.~~ 5. Samples Taken - (metals + organics) from Ind pool

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF PESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.		
REINSPECTION SCHEDULED ON OR AFTER _____ FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.		
SIGN. OF PERSON EC. REPORT <b>Osani</b>	TITLE <b>Sec/tres</b>	INSPECTOR

Received from: SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
 Suffolk Co. Dept. of INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL  
 Health 15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738  
 (516) 451-4633

15/19

NAME OF FACILITY		OWNER/OFFICER		PAGE 1 OF	
COMPANY NAME		CONTACT		TEL.	
PLANT ADDRESS		VILLAGE	TOWN		ZIP
MAILING ADDRESS					
DATE	TIME	ORIG.	PERIODIC	RE.	WASTE
					NO WASTE
					H&H
					SEWAGE SYSTEM
					PUBLIC PRIVATE

INDUSTRY					
PDES OR PDES PERMIT?			360 PERMIT?		
YES	NO	PERMIT NO.	YES	NO	PERMIT NO.

SCAVENGER				TEL.	
CAVENGER APPROVED		PICK UP RECORDS AVAILABLE		RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION	
YES	NO	YES	NO	YES	NO

HEATING SYSTEM - MFG NAME			FUEL TYPE	FIRING RATE
<i>Boiler only</i>				

MUNICIPAL NAME			WASTE BURNED	RATE
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RUM STORAGE		NUMBER STORED		TYPE OF MATERIAL STORED		
YES	NO	INDOORS	OUTDOORS	WASTE	RAW	
STORAGE TANKS		NUMBER OF TANKS		TYPE OF MATERIAL STORED		
YES	NO	ABOVEGROUND	UNDERGROUND	WASTE	RAW	
OPEN PROCESS TANKS		NUMBER OF OPEN PROCESS TANKS			ANY ART. XII VIOLATIONS	
YES	NO				YES	NO

*[Large diagonal line through empty space]*

PERMISSION IS 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.  
 REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_. FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT	TITLE	INSPECTOR
-----------------------------	-------	-----------





Received from:  
Suffolk Co. Dept. of  
Health

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

p 2/19

NAME OF FACILITY EMR Circuits		OWNER/OFFICER		PRGE-LOE 213	
COMPANY NAME C/M Marcus		CONTACT Patricia O'Sani		TEL.	
PLANT ADDRESS Hemp		VILLAGE		TOWN	
MAILING ADDRESS				ZIP	
DATE 7-8-83	TIME	ORIG.	PERIODIC	RE.	WASTE
					NO WASTE
					H&H
					SEWAGE SYSTEM
					PUBLIC PRIVATE

INDUSTRY PC Bd. Fabrication					
SPDES OR NPDES PERMIT?			360 PERMIT?		
YES	NO	PERMIT NO.	YES	NO	PERMIT NO.

SCAVENGER	TEL.
-----------	------

SCAVENGER APPROVED	YES	NO	PICK UP RECORDS AVAILABLE	YES	NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION	YES	NO
--------------------	-----	----	---------------------------	-----	----	---------------------------------------------------	-----	----

HEATING SYSTEM-MFG NAME	FUEL TYPE	FIRING RATE

INCIN. NAME	WASTE BURNED	RATE

DRUM STORAGE	YES	NO	NUMBER STORED	INDOORS	OUTDOORS	TYPE OF MATERIAL STORED	WASTE	RAW
STORAGE TANKS	YES	NO	NUMBER OF TANKS	ABOVEGROUND	UNDERGROUND	TYPE OF MATERIAL STORED	WASTE	RAW
OPEN PROCESS TANKS	YES	NO	NUMBER OF OPEN PROCESS TANKS			ANY ART. XII VIOLATIONS	YES	NO

5. pool almost full of opaque creamy 'pinkish' colored liquid - small drip from effluent pipe. there is some water on floor in area of floor drain, that may be causing drip.

6. The major problem this facility has is upgrading storage area for Art XII =

7. Will reinspect next week for floor drain sealing.

8. One air source (The copper ~~strip~~ <sup>alloy</sup>) may need a C.O.

PERMISSION IS 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.

REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_ . FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT	TITLE	INSPECTOR Eileen Governale
18-155: 9/82		5/81 TJK

**INDUSTRIAL WASTE PROCESS**

NO.	PROCESS	CHEMICALS USED AND APPROXIMATE QUANTITY	DISCHARGE	DISCHARGE TO
13	Waste Storage -	1 - 6000 gal metal Tank -	Waste not segregated	
		all solns cross current, on Friday -	all	
		added to 6000 gal Tank. No pickups yet -	lines	
		1 - 200 gal polypropylene Tank - for waste solvent waste (changed daily)		
		10 - 5 gal saw material in Cu etch area		
	Drums - 2	Lanuxia Developer KB-1A		
		1 - Sulfuric acid	Total 25 dr -	
		1 - Cu etch Hunt	125 5 gal containers	
		9 - <del>Fluoroboric</del> - empty	Fluoroboric	
		1 - esptali - acid dip -		
		1 - high speed finishing	2 drums empty	
		3 - high speed repl.		
		2 - di Sea Panel - 2		

**AIR POLLUTION SOURCES**

18-155:

NO.	PROCESS	CONTROL TYPE	EP'S	CHEMICALS OR PRODUCTS USED	AMOUNT CONSUM.	HOURS OF OPERA.	TYPE OF EMISSION
14	Dark Room - sink (no drains)		3	Tans - developers, fixer Rinse held separately -	1 bucket		1 gal
15	Floor Washing - in plating area, waste water disposed of to 6000 gal Tanks.						

Received from:  
Suffolk Co. Dept. of Health  
1/8/74



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

MEMORANDUM

TO: FRED EISENBUD, Esq.  
Suffolk County Attorney's Office

FROM: WILLIAM C. ROBERTS, P.E., Chief  
Bureau of Environmental Pollution Control *W.C.R.*

DATE: October 7, 1983

RE: EMR CIRCUITS, INC. (Possible Criminal Action)

As per your telephone conversation of October 5, 1983 with Mr. Patrick Perrella of this office. I am forwarding for your consideration this case report on EMR Circuits, Inc., 99 Marcus Boulevard, Hauppauge, NY.

Complaint Received

On October 4, 1983, James Pim, P.E., of this office, received a phone complaint registered against EMR Circuits. The caller stated that about once or twice a week EMR Circuits does discharge a 1,800 gallon chemical waste tank into a floor drain. This is accomplished by breaking out a cement plug from the floor drain and then after each discharge, the floor drain is again concreted over with a fresh "saccrete" concrete patch. The complainant stated that he has observed this occur regularly for the past three months.

When asked for his name, the caller freely identified himself as Michael Stas of 15 Morris Street, Brentwood, New York (phone 231-6985). I have attached a copy of the complaint.

On October 6, 1983 Mr. Perrella called the aforementioned complainant's phone number and verified the complaint by speaking with Mr. Stas. He informed Mr. Perrella that the best time to observe a discharge was on a Saturday morning between 8 a.m. and 10 a.m.

EMR Circuits, Inc. (Case History)

On June 9, 1983 this department conducted a Formal Administrative Hearing charging EMR Circuits with discharging toxic or hazardous materials without a New York State Pollutant Discharge Elimination Systems (SPDES) Permit and with violating a prior Order on Consent agreement. At this hearing, and in a subsequent written communication,

Fred Eisenbud, Esq.

Received from:  
Suffolk Co. Dept. of  
Health

October 7, 1983

12/2

Mr. Paul Wingler, the engineer hired by EMR Circuits informed this department that all industrial discharges had ceased. EMR Circuits was assessed and did pay a \$2,400 civil penalty as a result of this hearing. In addition, the Commissioner's Order (actually a stipulation agreement) directed the Respondent to immediately cease all industrial discharges (copy of P. Wingler's letter and Commissioner's Order attached).

Subsequent to the June 17, 1983 Commissioner's Order, an inspection and a sample analysis of EMR Circuits's industrial leaching pool both indicated a continuing discharge of toxic or hazardous materials in violation of State and County law as well as the Commissioner's Order. Another pool sample taken on August 10, 1983 by this department again substantiated the unpermitted discharge conditions (copies of lab reports and violation notices attached).

#### Additional Problems at EMR Circuits (Air Pollution)

In addition to the aforementioned discharge violations, the department has received complaints from commercial tenants sharing the building with EMR Circuits. The nature of these complaints are that industrial fumes from EMR Circuits are making their employees ill. The department has been able to substantiate one of these complaints as being caused by solvent fumes from EMR Circuits.

As a result of the air pollution violation, as well as the violations of the Commissioner's Order, another Formal Administrative Hearing will be scheduled as soon as it can be ascertained that such Formal Hearing will not interfere with a possible criminal investigation by your office (copy of hearing notice draft attached).

#### Conclusion

EMR Circuits has had ample notice of the applicable law concerning unpermitted discharges of toxic or hazardous materials. We believe that the two pool samples taken by our department are from the pool that is routed to the suspect floor drain in EMR Circuits' facility. If the allegations of intentional discharges to the floor drain at EMR Circuits can be substantiated, then I believe a criminal action is warranted.

WCR:PP:daf

Enclosures

Received from: Suffolk Co. Dept. of Health  
SUFFOLK COUNTY DEPT. OF HEALTH SERVICES  
UNIFORM COMPLAINT FIELD REPORT

Received from: Suffolk Co. Dept. of Health

Air Pollution   
Hazardous Material & Industrial Waste   
Internal Ventilation   
Sewage Treatment   
Assigned to Zone No. II

SCDHS No. 015 Letter   
SPILL No. \_\_\_\_\_ Telephone   
DOT No. \_\_\_\_\_ Person

Date 2-25-83 Time 3:06 PM

Referred by: George Proios Phone 970-5886  
Complainant Anonymous - Worker at E.M.K.  
Address 1245 8th St - Worcester - State office Bldg (T.V.H.) Worcester, 01785 Phone \_\_\_\_\_

Received from: Suffolk Co. Dept. of Health

Complaint Against "E.M.K. Circuits Inc."  
Address 99 Marine Blvd (T.V.H.) Hamp Phone \_\_\_\_\_

Nature of Request Toxic materials being dumped into floor drain which is covered up with cement block each night. One item dumped was M&K. Since new owner will not stop and dump, but has continued to dump outside of building - west side.  
RCV'D by P. Deella Assigned to J. Williams Date 2-25-83

Persons Interviewed	Address	Phone
<u>1</u>		

Information Obtained from Interviewed Individuals:  
I received a phone call to my home at 7 PM Feb 25<sup>th</sup> 1983 by a worker at E.M.K. Circuits, located at 99 Marine Blvd. The worker complained about fumes in the workplace. Many employees get nausea, no ventilation fans, only 1 or 2 open windows, waste materials from photographic emulsion and circuit plating is dumped on a daily basis into floor drain which leads to cesspool. Wastes are also being dumped in soil around building. 2 Suffolk County Deputy Sheriffs are often present in the facility and have done some construction work for work.

Please check out before the Feb 28, 1983 hearing - [Signature]

Received FROM:  
Suffolk Co. Dept. of  
Health *11/17*

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES  
UNIFORM COMPLAINT FIELD REPORT

Air Pollution	<input checked="" type="checkbox"/>
Hazardous Material & Industrial Waste	<input type="checkbox"/>
Internal Ventilation	<input type="checkbox"/>
Sewage Treatment	<input type="checkbox"/>
Assigned to Zone No.	

SCDHS No. 4129 Letter   
 SPILL No. \_\_\_\_\_ Telephone   
 DOT No. \_\_\_\_\_ Person   
 Date AUG 17, 1983 Time 8:50 Am

Referred by: \_\_\_\_\_ Phone \_\_\_\_\_  
 Complainant DATA RECORDING SYSTEMS - LINDA DARMSTADT  
 Address 97 MARCUS BLVD (T.V.H.) HAVANAGE Phone 516-231-1133

Complaint Against EMR CIRCUITS (?)  
 Address \_\_\_\_\_ (T.V.H.) \_\_\_\_\_ Phone \_\_\_\_\_

Nature of Request B WORKERS GETTING HEADACHES IN THE AFTERNOON - PLANTS DYING - WORKERS FEEL IT MAY BE FROM CHEMICALS STORED IN YARD OF ADJOINING FIRM  
 RCV'D by JAM Assigned to Gladysz Date \_\_\_\_\_

Persons Interviewed	Address	Phone
<u>David Spencer</u>	<u>97 Marcus Blvd Havnage</u>	<u>231-1133</u>
<u>Linda Darmstadt</u>	<u>97 Marcus Blvd Havnage</u>	
_____	_____	_____
_____	_____	_____

Information Obtained from Interviewed Individuals:  
David Spencer, President of Data Recording Systems, said that his business has been at 97 Marcus Blvd since April 1983. He said that odors have been a problem but have been especially bad this week. Employees have complained of headaches and nausea. A similar occurrence happened one month ago.  
Linda Darmstadt, sec from D.R.S., said that recently as many as 6 of the 12 employees have experienced illness in single day. She said that sometimes EMR has drums of sulfuric stored outside building.

Received from:  
 Suffolk Co. Dept. of  
 Health



9-18-83

1276

Inspector's Observations No noticeable odor inside facility. Tested 2  
areas for amines, acetic acid, and hydrogen cyanide. None  
detected. Some odors from plating next door are noticeable outside  
building, but not especially intense. Wall between DRS &  
EMR seems to extend to roof with no openings visible.

Received from:  
Suffolk Co. Dept. of  
Health

Name of Responsible Individuals

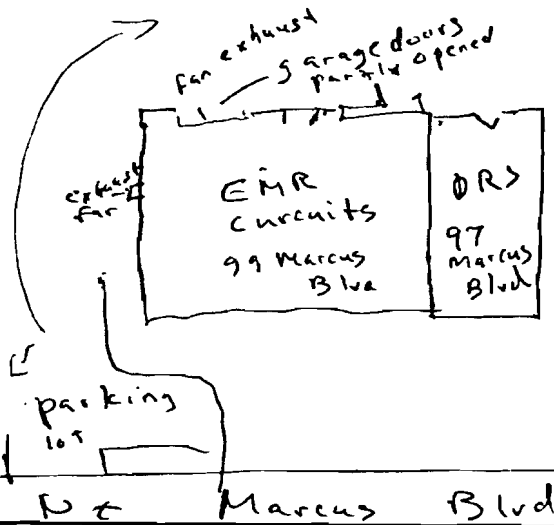
Address

Tel. No.

Inspector's Recommendation to Persons Concerned

Information Related by Inspector to Complainant Further testing may be required.

Sketch:



Inspector's Signature

*[Handwritten Signature]*

Date

9-16-83

p 30/5

Received from:  
 Suffolk Co. Dept. of  
 Health

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

IAIR

Name DATA RECORDING SYSTEMS  
 Location 107 97 MARCUS BLVD HAUP.  
 Point of Collection ABOVE CEILING TUBES IN 1st FLOOR OFFICE  
 Remarks: RESULTS TO T. GRADY (M.E. / TR. LAB)

Compound	ppb ppm	Compound	ppb ppm
Methylene Chloride.....		Benzene.....	<0.4
Freon 113.....	<0.005	Toluene.....	.11
Chloroform.....	<0.01	o-Xylene.....	<0.3
1,1,1 Trichloroethane.....	.01	m,p-Xylene.....	<0.3
Carbon Tetrachloride.....	<0.002	Xylenes.....	—
1,1,2 Trichloroethylene.....	.53	Chlorobenzene.....	<0.3
Chlorodibromomethane.....	<0.002	Ethylbenzene.....	<0.3
Tetrachloroethylene.....	.05	Chlorotoluenes.....	<0.3
Bromoform.....	<0.005	1,3,5 Trimethylbenzene.....	<0.3
Bromodichloromethane.....		1,2,4 Trimethylbenzene.....	<0.3
1,1,2 Trichloroethane.....		m,p Dichlorobenzene.....	<0.3
s-Tetrachloroethane.....		o-Dichlorobenzene.....	<0.3
n-Decane.....		p-Diethylbenzene.....	<0.3
Undecane.....		p-Ethyltoluene.....	—
Dodecane.....		1,2,4,5 Tetraethylbenzene.....	<0.3
n-Tridecane.....		Octane.....	
Bromobenzene.....		n-Nonane.....	
cis-dichloroethylene.....		2,6-toluene	.72

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
1. Collected by	<u>—</u>	<u>—</u>	<u>—</u>	<u>10:20 AM</u>
2. Transferred to	<u>Thomas J. Amendola</u>	<u>SCHEPPE</u>	<u>9-7-83</u>	<u>11:16 PM</u>
3. Transferred to	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
4. Transferred to	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

4/15

Received from:  
 Suffolk Co. Dept. of  
 Health

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE / AIR

Name DATA Processing - Ystug  
 Location 97 Marcus Blvd, HAUB  
 Point of Collection Desk in Ken ZACH's office

Remarks: Residue in T (GLASS) (Desk (Kitchen))

Compound	ppb ppm	Compound	ppb ppm
Methylene Chloride.....		Benzene.....	<u>&lt;0.4</u>
Freon 113.....	<u>&lt;0.005</u>	Toluene.....	<u>.11</u>
Chloroform.....	<u>&lt;0.01</u>	o-Xylene.....	<u>&lt;0.3</u>
1,1,1 Trichloroethane.....	<u>.01</u>	m,p-Xylene.....	<u>&lt;0.3</u>
Carbon Tetrachloride.....	<u>&lt;0.002</u>	Xylenes.....	<u>—</u>
1,1,2 Trichloroethylene.....	<u>.52</u>	Chlorobenzene.....	<u>&lt;0.3</u>
Chlorodibromomethane.....	<u>&lt;0.002</u>	Ethylbenzene.....	<u>&lt;0.3</u>
Tetrachloroethylene.....	<u>.005</u>	Chlorotoluenes.....	<u>&lt;0.3</u>
Bromoform.....	<u>&lt;0.005</u>	1,3,5 Trimethylbenzene.....	<u>&lt;0.3</u>
Bromodichloromethane.....		1,2,4 Trimethylbenzene.....	<u>&lt;0.3</u>
1,1,2 Trichloroethane.....		m,p Dichlorobenzene.....	<u>&lt;0.3</u>
s-Tetrachloroethane.....		o-Dichlorobenzene.....	<u>&lt;0.3</u>
n-Decane.....		p-Diethylbenzene.....	<u>&lt;0.3</u>
Undecane.....		p-Ethyltoluene.....	<u>—</u>
Dodecane.....		1,2,4,5 Tetramethylbenzene.....	<u>&lt;0.3</u>
n-Tridecane.....		Octane.....	
Bromobenzene.....		n-Nonane.....	
cis-dichloroethylene.....			<u>.05</u>

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
1. Collected by	<u>[Signature]</u>	<u>[Affiliation]</u>	<u>9-2-83</u>	<u>11:25 AM</u>
2. Transferred to	<u>Francis J. Oriantola</u>	<u>SCDHS-PH1</u>	<u>9-7-83</u>	<u>11:10 AM</u>
3. Transferred to				
4. Transferred to				

1-5-83

Received from:  
Suffolk Co. Dept. of Health

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE / AIR

Name EMR CIRCUITS  
Location 94 MARBLE BLVD, HAVERHILL  
Point of Collection FRONT LOBBY  
Remarks: Solvent odor present / Results to J. GUADRES

Compound	ppb-ppm	Compound	ppb-ppm
Methylene Chloride	_____	Benzene	<0.4
Freon 113	<0.025	Toluene	0.09
Chloroform	<0.05	o-Xylene	<0.3
1,1,1 Trichloroethane	<0.02	m,p-Xylene	<0.3
Carbon Tetrachloride	<0.01	Xylenes	_____
1,1,2 Trichloroethylene	1.66	Chlorobenzene	<0.3
Chlorodibromomethane	<0.01	Ethylbenzene	<0.3
Tetrachloroethylene	<0.015	Chlorotoluenes	<0.3
Bromoform	<0.025	1,3,5 Trimethylbenzene	<0.3
Bromodichloromethane	_____	1,2,4 Trimethylbenzene	<0.3
1,1,2 Trichloroethane	_____	m,p Dichlorobenzene	<0.3
s-Tetrachloroethane	_____	o-Dichlorobenzene	<0.3
n-Decane	_____	p-Diethylbenzene	<0.3
Undecane	_____	p-Ethyltoluene	_____
Dodecane	_____	1,2,4,5 Tetraethylbenzene	<0.3
n-Tridecane	_____	Octane	_____
Bromobenzene	_____	n-Nonane	_____
cis-dichloroethylene	_____	2-Ethylhexane	11.5

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            |
|-------------------|-------------------------|------------------|----------------|-----------------|
| 1. Collected by   | <u>[Signature]</u>      | <u>SCDHS</u>     | <u>10-2-83</u> | <u>15:00</u>    |
| 2. Transferred to | <u>Francis Amendola</u> | <u>SCDHS-PHL</u> | <u>9-7-83</u>  | <u>11:10 AM</u> |
| 3. Transferred to | _____                   | _____            | _____          | _____           |
| 4. Transferred to | _____                   | _____            | _____          | _____           |

COUNTY OF SUFFOLK

Appendix 1.1-14



Received from:  
Suffolk Co. Dept. of  
Health

PETER F. COHALAN  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Date 8/26/83

EMR Circuits, Inc.

SPDES NO. \_\_\_\_\_

99 Marcus Blvd.

Lab. No. IW-783010

Hauppauge, New York 11788

Field No. I-EG-7-8

Gentlemen:

On 7/8/83 samples of industrial waste were taken from your industrial pool located on the south s/o building in parking lot driveway. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- 1. 1,1,2 Trichloroethylene 1200ppb 6.
- 2. Xylenes 910ppb 7.
- 3. Ethylbenzene 130ppb 8.
- 4. 2-Butanone (hek) 860,000ppb 9.
- 5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred (\$500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

*[Signature]*  
John A. Gladysz  
Environmental Pollution Control

(SEE REVERSE SIDE FOR STANDARDS)

FIELD NO. 1-EG-7-8 LAB NO. 7-83-48 DATE COMPLETED 7/2/83

NAME OR FIRM EMR Circuits Inc  
 ADDRESS OR LOCATION 99 Marcus Blvd. - Haupp  
 POINT OF COLLECTION end pool - in North Driveway  
 REMARKS/INSTRUCTIONS located approx 7' from Bldg

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	3.2 x 10 <sup>1</sup> Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	0.3
COD				NICKEL	0.7
TOC				ZINC	1.3
				LEAD	12.2
				CADMIUM	0.1
NITRATE-N				SILVER	2.4
NITRITE				CHROMIUM+6	
AMMONIA-N					
TKN		pH (FIELD)	7		
		TEMP. (FIELD)			

Received from:  
 Suffolk Co. Dept. of  
 Health

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>Eileen Guernale</u>	<u>SCDHS</u>	<u>7-8-83</u>	<u>12:10 PM</u>
2. POSSESSION BY				
3. POSSESSION BY				
4. RECEIVED LAB BY	<u>[Signature]</u>		<u>7/1/83</u>	<u>10 AM</u>
5. POSSESSION BY				
6. POSSESSION BY				

OFFICE OF VIOLATION  
COUNTY OF SUFFOLK

Received from:  
Suffolk Co. Dept. of  
Health

P 3-130



PETER F. COHALAN  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

EMR Circuits  
99 Marcus Blvd.  
Hauppauge, New York 11788

Date 8/26/83  
SPDES NO. \_\_\_\_\_  
Lab. No. 8-83-123  
Field No. 1-JW-8-10

Gentlemen:

On 8/10/83 samples of industrial waste were taken from your industrial pool located on south s/o building in parking lot driveway. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- 1. Phenols .59 mg/l 6.
- 2. pH = 2 7.
- 3. 8.
- 4. 9.
- 5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred (\$500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John A. Gladysz  
Environmental Pollution Control

Received from:  
Suffolk Co. Dept. of Health

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

Reinsp Letter 4/1/80  
Campie  
File 22  
Jimma

NAME OF FACILITY EMR Circuits		OWNER/OFFICER		PAGE 1 of 1	
COMPANY NAME		CONTACT Pat Osani		TEL.	
PLANT ADDRESS 99 Marcus Blvd		VILLAGE	TOWN Sec. Towns	ZIP	
MAILING ADDRESS					
DATE 10/14/83	TIME	ORIG.	PERIODIC	RE.	WASTE
					NO WASTE
					H&H
					SEWAGE SYSTEM
					PUBLIC PRIVATE

INDUSTRY printed circuit boards.					
PDES OR PDES PERMIT?		YES	NO	PERMIT NO.	360 PERMIT?
					YES
					NO
					PERMIT NO.

CAVENGER RGM - Chemical Management		TEL.	
CAVENGER APPROVED	YES	NO	PICK UP RECORDS AVAILABLE
			YES
			NO
RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION		YES	NO

HEATING SYSTEM - MFG NAME		FUEL TYPE	FIRING RATE
INCIN. NAME		WASTE BURNED	RATE

DRUM STORAGE	YES	NO	NUMBER STORED	INDOORS	OUTDOORS	TYPE OF MATERIAL STORED	WASTE	RAW
STORAGE TANKS	YES	NO	NUMBER OF TANKS	ABOVEGROUND	UNDERGROUND	TYPE OF MATERIAL STORED	WASTE	RAW
PEN PROCESS TANKS	YES	NO	NUMBER OF OPEN PROCESS TANKS	ANY ART. XII VIOLATIONS		YES	NO	

1 Meeting to review plans for ART XII & AIR submissions.

a) noted Drum + TANK storage areas

b) noted floor drain concreted over.

c) Drum storage area cleaned up.

d) Screen bath newly erected + vented out North wall

EMR will pick up Air 100 forms today + submit plans for ART XII storage. (1/2 way down)

Drill - 4 inch color pipe - 6-ft below ground level

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF ESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

INSPECTION SCHEDULED ON OR AFTER . FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

IGN. OF PERSON EC. REPORT Osani	TITLE	INSPECTOR Eileen Governale
------------------------------------	-------	-------------------------------



10/30

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

Received from:  
 Suffolk Co. Dept. of Health  
 TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR Circuits Inc

Location 99 Marcus Blvd, Hauppauge

Point of Collection Holdng Tank 4000 gal A.G. in rear of Shop  
Bottom sample

Remarks: ph-2

Compound	pbb	Compound	ppb
Methylene Chloride.....	<u>&lt;54</u>	Cis Dichloroethylene.....	<u>&lt;16</u>
Freon 113.....	<u>&lt;4</u>	Benzene.....	<u>&lt;10</u>
Chloroform.....	<u>-</u>	Toluene.....	<u>20</u>
1,1,1 Trichloroethane.....	<u>39,000</u>	Chlorobenzene.....	<u>&lt;12</u>
Carbon Tetrachloride.....	<u>-</u>	Ethylbenzene.....	<u>&lt;10</u>
1,1,2 Trichloroethylene.....	<u>1,500.000</u>	Xylene(s).....	<u>&lt;10</u>
Bromodichloromethane.....	<u>-</u>	Bromobenzene.....	<u>&lt;16</u>
1,1,2 Trichloroethane.....	<u>-</u>	Chlorotoluene(s).....	<u>&lt;12</u>
Chlorodibromomethane.....	<u>-</u>	1,3,5 Trimethylbenzene.....	<u>&lt;10</u>
Tetrachloroethylene.....	<u>-</u>	1,2,4 Trimethylbenzene.....	<u>&lt;10</u>
Bromoform.....	<u>-</u>	m,p-Dichlorobenzene.....	<u>214</u>
1,1,2,2 Tetrachloroethane...	<u>-</u>	o-Dichlorobenzene.....	<u>16</u>
Octane.....	<u>&lt;40</u>	p-Diethylbenzene.....	<u>&lt;10</u>
Styrene.....	<u>27</u>	1,2,4,5 Tetramethylbenzene...	<u>&lt;10</u>
n-Nonane.....	<u>&lt;40</u>	1,2,4 Trichlorobenzene.....	<u>&lt;16</u>
p-Ethyltoluene.....	<u>&lt;10</u>	1,2,3 Trichlorobenzene.....	<u>&lt;18</u>
n-Decane.....	<u>&lt;40</u>	<u>methyl Ethyl Ketone</u>	<u>532</u>
n-Undecane.....	<u>&lt;40</u>		

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
1. Collected by	<u>Eileen Governale</u>	<u>SCDHS</u>	<u>10/29/83</u>	<u>11<sup>30</sup> AM</u>
2. Transferred to	<u>Francis J. Amabile</u>	<u>SCDHS-PHL</u>	<u>11-29-83</u>	<u>12:30 PM</u>
3. Transferred to				
4. Transferred to				

26/30

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

Received from:  
 Suffolk Co. Dept. of  
 Health

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR CIRCUITS Inc

Location 99 Marcus Blvd, Hauppauge

Point of Collection From process Tank (rinse) bottom (Tank <sup>drained</sup> Almost empty)  
concentrate tank contains H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, and H<sub>2</sub>O<sub>2</sub>.

Remarks:

pH-1

Compound	ppb	Compound	ppb
Methylene Chloride.....	<u>&lt;54</u>	Cis Dichloroethylene.....	<u>&lt;16</u>
Freon 113.....	<u>&lt;4</u>	Benzene.....	<u>&lt;10</u>
Chloroform.....	<u>&lt;5</u>	Toluene.....	<u>&lt;10</u>
1,1,1 Trichloroethane.....	<u>&lt;17</u>	Chlorobenzene.....	<u>&lt;18</u>
Carbon Tetrachloride.....	<u>&lt;1</u>	Ethylbenzene.....	<u>&lt;10</u>
1,1,2 Trichloroethylene.....	<u>9</u>	Xylene(s).....	<u>&lt;10</u>
Bromodichloromethane.....	<u>&lt;3</u>	Bromobenzene.....	<u>&lt;16</u>
1,1,2 Trichloroethane.....	<u>&lt;5</u>	Chlorotoluene(s).....	<u>&lt;12</u>
Chlorodibromomethane.....	<u>&lt;2</u>	1,3,5 Trimethylbenzene.....	<u>&lt;10</u>
Tetrachloroethylene.....	<u>&lt;2</u>	1,2,4 Trimethylbenzene.....	<u>&lt;10</u>
Bromoform.....	<u>&lt;5</u>	m,p-Dichlorobenzene.....	<u>&lt;14</u>
1,1,2,2 Tetrachloroethane...	<u>&lt;3</u>	o-Dichlorobenzene.....	<u>&lt;14</u>
Octane.....	<u>&lt;40</u>	p-Diethylbenzene.....	<u>&lt;10</u>
Styrene.....	<u>&lt;10</u>	1,2,4,5 Tetramethylbenzene...	<u>&lt;10</u>
n-Nonane.....	<u>&lt;40</u>	1,2,4 Trichlorobenzene.....	<u>&lt;16</u>
p-Ethyltoluene.....	<u>&lt;10</u>	1,2,3 Trichlorobenzene.....	<u>&lt;18</u>
n-Decane.....	<u>&lt;40</u>	Methyl Ethyl ketone	<u>1200</u>
n-Undecane.....	<u>&lt;40</u>		

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
1. Collected by	<u>Eileen Gervano</u>	<u>SCDHS</u>	<u>10/29/83</u>	<u>11<sup>05</sup> AM</u>
2. Transferred to	<u>Francis Diemala</u>	<u>SCDHS-PHL</u>	<u>10-24-83</u>	<u>12:30 PM</u>
3. Transferred to				
4. Transferred to				

*MP*

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
 DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES  
 Received from: Suffolk Co. Dept. of Health  
 PUBLIC HEALTH LABORATORY  
 TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR Circuits Inc  
 Location 99 Marcus Blvd. Hempstead  
 Point of Collection - from hose attached to dump pump near vicinity of floor drain.  
 Remarks: pH 12+

Compound	ppb	Compound	ppb
Methylene Chloride.....	<u>&lt;54</u>	Cis Dichloroethylene.....	<u>&lt;16</u>
Freon 113.....	<u>14</u>	Benzene.....	<u>&lt;10</u>
Chloroform.....	<u>&lt;5</u>	Toluene.....	<u>&lt;10</u>
1,1,1 Trichloroethane.....	<u>170</u>	Chlorobenzene.....	<u>&lt;12</u>
Carbon Tetrachloride.....	<u>&lt;1</u>	Ethylbenzene.....	<u>&lt;10</u>
1,1,2 Trichloroethylene.....	<u>3300</u>	Xylene(s).....	<u>&lt;10</u>
Bromodichloromethane.....	<u>&lt;3</u>	Bromobenzene.....	<u>&lt;16</u>
1,1,2 Trichloroethane.....	<u>&lt;5</u>	Chlorotoluene(s).....	<u>&lt;12</u>
Chlorodibromomethane.....	<u>&lt;2</u>	1,3,5 Trimethylbenzene.....	<u>&lt;10</u>
Tetrachloroethylene.....	<u>&lt;2</u>	1,2,4 Trimethylbenzene.....	<u>&lt;10</u>
Bromoform.....	<u>&lt;5</u>	m,p-Dichlorobenzene.....	<u>&lt;14</u>
1,1,2,2 Tetrachloroethane...	<u>&lt;2</u>	o-Dichlorobenzene.....	<u>&lt;14</u>
Octane.....	<u>&lt;40</u>	p-Diethylbenzene.....	<u>&lt;10</u>
Styrene.....	<u>&lt;10</u>	1,2,4,5 Tetramethylbenzene...	<u>&lt;10</u>
n-Nonane.....	<u>&lt;40</u>	1,2,4 Trichlorobenzene.....	<u>&lt;16</u>
p-Ethyltoluene.....	<u>&lt;10</u>	1,2,3 Trichlorobenzene.....	<u>&lt;18</u>
n-Decane.....	<u>&lt;40</u>		<u>&lt;40</u>
n-Undecane.....	<u>&lt;40</u>	<i>methyl Ethyl ketone</i>	

CYANIDE - 1.05 mg/l

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
1. Collected by	<u>Eileen Gvernale</u>	<u>SCDHS</u>	<u>10/29/83</u>	<u>10<sup>45</sup> AM</u>
2. Transferred to	<u>Frank Minidola</u>	<u>SCDH-PHL</u>	<u>10-29-83</u>	<u>12:30 PM</u>
3. Transferred to				
4. Transferred to				

REC'D 10-29-83 By FA  
 FIELD NO. HR28-022

DATE COMPLETED 10/29/83  
 EXAMINED BY FA

18430

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

Received from:  
 Suffolk Co. Dept. of  
 Health

PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR Circuits Inc

Location 99 Marcus Blvd, Hauppauge

Point of Collection Leaching pool North s/o Bldg

Remarks:

pH 1

Compound	ppb	Compound	ppb
Methylene Chloride.....	<u>130</u>	Cis Dichloroethylene.....	<u>&lt;16</u>
Freon 113.....	<u>&lt;4</u>	Benzene.....	<u>&lt;10</u>
Chloroform.....	<u>12</u>	Toluene.....	<u>&lt;10</u>
1,1,1 Trichloroethane.....	<u>4300</u>	Chlorobenzene.....	<u>&lt;12</u>
Carbon Tetrachloride.....	<u>&lt;1</u>	Ethylbenzene.....	<u>&lt;10</u>
1,1,2 Trichloroethylene.....	<u>13000</u>	Xylene(s).....	<u>&lt;10</u>
Bromodichloromethane.....	<u>&lt;3</u>	Bromobenzene.....	<u>&lt;16</u>
1,1,2 Trichloroethane.....	<u>&lt;5</u>	Chlorotoluene(s).....	<u>&lt;12</u>
Chlorodibromomethane.....	<u>&lt;2</u>	1,3,5 Trimethylbenzene.....	<u>&lt;10</u>
Tetrachloroethylene.....	<u>&lt;2</u>	1,2,4 Trimethylbenzene.....	<u>&lt;10</u>
Bromoform.....	<u>&lt;5</u>	m,p-Dichlorobenzene.....	<u>&lt;14</u>
1,1,2,2 Tetrachloroethane...	<u>&lt;3</u>	o-Dichlorobenzene.....	<u>&lt;14</u>
Octane.....	<u>&lt;40</u>	p-Diethylbenzene.....	<u>&lt;10</u>
Styrene.....	<u>&lt;10</u>	1,2,4,5 Tetramethylbenzene....	<u>&lt;10</u>
n-Nonane.....	<u>&lt;40</u>	1,2,4 Trichlorobenzene.....	<u>&lt;16</u>
p-Ethyltoluene.....	<u>&lt;10</u>	1,2,3 Trichlorobenzene.....	<u>&lt;18</u>
n-Decane.....	<u>&lt;40</u>	Methyl Ethyl Ketone	<u>3300</u>
n-Undecane.....	<u>&lt;40</u>		

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
1. Collected by	<u>Eileen Governale</u>	<u>Suff Co D.H.S.</u>	<u>10/29/83</u>	<u>9:40 AM</u>
2. Transferred to	<u>Francis J. Mendola</u>	<u>SCDHS-PHL</u>	<u>10-29-83</u>	<u>12:30 PM</u>
3. Transferred to				
4. Transferred to				

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

*11/9/83*

Received from:  
 Suffolk Co. Dept. of  
 Health

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR Circuits Inc

Location 99 Marcus Blvd, Hauppauge

Point of Collection - Blue-Green fluid discharging from pipe entering Leaching pool on North side of Bldg.

Remarks:  
PH-1

Compound	ppb	Compound	ppb
Methylene Chloride.....	<u>73</u>	Cis Dichloroethylene.....	<u>&lt;16</u>
Freon 113.....	<u>&lt;4</u>	Benzene.....	<u>&lt;10</u>
Chloroform.....	<u>&lt;5</u>	Toluene.....	<u>&lt;10</u>
1,1,1 Trichloroethane.....	<u>120</u>	Chlorobenzene.....	<u>&lt;12</u>
Carbon Tetrachloride.....	<u>&lt;1</u>	Ethylbenzene.....	<u>&lt;10</u>
1,1,2 Trichloroethylene.....	<u>860</u>	Xylene(s).....	<u>&lt;10</u>
Bromodichloromethane.....	<u>&lt;3</u>	Bromobenzene.....	<u>&lt;16</u>
1,1,2 Trichloroethane.....	<u>&lt;5</u>	Chlorotoluene(s).....	<u>&lt;12</u>
Chlorodibromomethane.....	<u>&lt;2</u>	1,3,5 Trimethylbenzene.....	<u>&lt;10</u>
Tetrachloroethylene.....	<u>&lt;2</u>	1,2,4 Trimethylbenzene.....	<u>&lt;10</u>
Bromoform.....	<u>&lt;5</u>	m,p-Dichlorobenzene.....	<u>&lt;14</u>
1,1,2,2 Tetrachloroethane...	<u>&lt;3</u>	o-Dichlorobenzene.....	<u>&lt;14</u>
Octane.....	<u>&lt;40</u>	p-Diethylbenzene.....	<u>&lt;10</u>
Styrene.....	<u>&lt;10</u>	1,2,4,5 Tetramethylbenzene....	<u>&lt;10</u>
n-Nonane.....	<u>&lt;40</u>	1,2,4 Trichlorobenzene.....	<u>&lt;16</u>
p-Ethyltoluene.....	<u>&lt;10</u>	1,2,3 Trichlorobenzene.....	<u>&lt;18</u>
n-Decane.....	<u>&lt;40</u>		
n-Undecane.....	<u>&lt;40</u>	Methyl Ethyl ketone	<u>2100</u>

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
1. Collected by	<u>Eileen Governale</u>	<u>SCDHS</u>	<u>10/29/83</u>	<u>9<sup>26</sup> AM</u>
2. Transferred to	<u>Francis Governale</u>	<u>SCDHS-PHL</u>	<u>10-29-83</u>	<u>12:30 PM</u>
3. Transferred to				
4. Transferred to				



**RECRA RESEARCH, INC.**

*Hazardous Waste And Toxic Substance Control*

RECEIVED FROM NYSDEC  
DIVISION OF ENVIRONMENTAL  
ENFORCEMENT  
WHITE PLAINS

JAN 3 0 1984

RECEIVED WASTE ENFORCEMENT  
CENTRAL OFFICE

*p 10 / 30*

January 19, 1984

Mr. Edwin Perkins  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, New York 12233

*Samples collected 10/29/83*

Dear Mr. Perkins:

Please find enclosed the report regarding the analysis performed on the sample labelled H-IR28-01B, H-IR28-02B, H-IR28-04B, H-IR28-05B, received at Recra Research, Inc. on October 30, 1983.

If you have any questions or if I can be of further assistance to you, please do not hesitate to contact me. We look forward to being of continued service to you in the future.

Sincerely,

RECRA RESEARCH, INC.

*Brian C. Senefelder*

Brian C. Senefelder  
Laboratory Supervisor  
Waste Materials Management

I.D. #3W-160

BCS/af  
Enclosures

**RECEIVED**

FEB 1 0 1984

RECEIVED FROM NYSDEC  
DIVISION OF ENVIRONMENTAL  
ENFORCEMENT  
WHITE PLAINS

ANALYTICAL RESULTS

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
EP TOXICITY TEST EXTRACTS

p. 110/30

Report Date: 1/13/84

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION				EPA MAXIMUM CONCENTRATION (mg/l)
		H-1R28-01B	H-1R28-02B	H-1R28-04B	H-1R28-05B	
Total Arsenic	mg/l	<0.005	<0.005	<0.005	0.006	5.0
Total Barium	mg/l	0.96	0.69	0.21	0.57	100.0
Total Cadmium	mg/l	<0.006	<0.006	<0.006	0.030	1.0
Total Chromium	mg/l	0.356	4.03	1.23	17.3	5.0
Total Lead	mg/l	1.60	1.20	2.60	0.260	5.0
Total Mercury	mg/l	<0.001	<0.001	<0.001	<0.001	0.2
Total Silver	mg/l	0.026	<0.008	<0.5	<0.008	1.0
Total Selenium	mg/l	<0.005	<0.005	<0.005	<0.005	5.0
Hexavalent Chromium	mg/l	0.024	0.029	0.022	0.092	-

COMMENTS:

Methods used for the EP Toxicity Test procedure as well as the analysis of the resulting extracts were presented in U.S. Environmental Protection Agency publication, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods; SW-846, Second Edition, 1982. Metals analyses were performed utilizing the method of standard addition. Values reported as "less than" (<) indicate the working detection limit for the particular sample or parameter. Upon receipt of samples, all legal tapes were intact and ice packs were still semi-frozen. The samples themselves were received cold.

FOR RECRA ENVIRONMENTAL LABORATORIES

*R. V. Finn*

DATE

*1/13/84*

RECEIVED

FEB 10 1984



RECRA ENVIRONMENTAL LABORATORIES  
I.D. #83-1171/3W160

p. 12-130

HAZARDOUS WASTE ASSESSMENT  
performed for  
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

RECEIVED FROM NYSDEC  
DIVISION OF ENVIRONMENTAL  
ENFORCEMENT  
WHITE PLAINS

Report Date: January 19, 1984

SAMPLE IDENTIFICATION: H-IR28-05B

EP TOXICITY

The waste sample was subjected to the EP Toxicity Test procedure as defined in Test Method 1310 specified in Test Methods for Evaluating Solid Waste; Physical/Chemical Methods, SW 846, July 1982, 2nd edition.

The waste sample contained greater than 0.5 percent filterable solids; therefore, it was extracted according to protocol.

The resultant extract was analyzed for the metal contaminants only as listed in Test Method 1310. The results of these analyses are listed in this report.

The analyzed chromium concentration of the EP Toxicity Test Extract does exceed the maximum allowable concentration listed in the October 30, 1980 amended Title 40 CFR. Therefore, the sample does exhibit the characteristic of EP Toxicity and should be assigned an EPA Hazard Code of "E" and an EPA Hazardous Waste Number of "D007", designating chromium contamination.

RECRA RESEARCH, INC.

Brian C. Senfelder

DATE

1-19-84

I.D. #3W-160





P13730

HAZARDOUS WASTE ASSESSMENT  
performed for  
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

RECEIVED FROM NYSDEC  
DIVISION OF ENVIRONMENTAL  
ENFORCEMENT  
WHITE PLAINS

Report Date: January 19, 1984

SAMPLE IDENTIFICATION: H-IR28-01B, H-IR28-02B, H-IR28-04B

EP TOXICITY

The waste samples were subjected to the EP Toxicity Test procedure as defined in Test Method 1310 specified in Test Methods for Evaluating Solid Waste; Physical/Chemical Methods, SW 846, July 1982, 2nd edition.

The waste samples contained greater than 0.5 percent filterable solids; therefore, they were extracted according to protocol.

The resultant extracts were analyzed for the metal contaminants only as listed in Test Method 1310. The results of these analyses are listed in this report.

The analyzed metal contaminants of the EP Toxicity Test Extracts does not exceed the maximum allowable concentrations listed in the October 30, 1980 amended Title 40 CFR. Therefore, the samples do not exhibit the characteristic of EP Toxicity (for metals only).

RECRA RESEARCH, INC.

DATE

Brian C. Sniefelder  
1/23/84

I.D. #3W-160



1/14/78

H1R28-01

taken from liquid running into  
pool from a pipe approximately  
2 feet below the sewer.

9:26 AM pH = approx!

Pool on the north side of bldg.  
smells like plastic waste, mixed  
chemical smell.

bluish green clear liquid.

-01-A

2 x 250 ml plastic bottles  
for cyanide - Attempted to  
preserve with NaOH, but insufficient  
quantity to bring pH up.

01-B

1 x 500 ml glass bottle - no preserv.  
for metals - EPA Tox.

-01-C

1 x 250 glass bottle  
for phenols  
preserved with  $CuSO_4$  & 4 drops  $H_3PO_4$

01-D

1 pint glass - no preserv.  
for organics

01-E

1 x 250 plastic bottle -  
for metals - no pres.

at 9:28 am the discharge began to decrease.  
By 9:35 the discharge had just about  
stopped.

p. 15 of 30

Received from:  
Suffolk Co. Dept. of  
Health

HIR 28-02

taken from the liquid in the  
pool sampled for #1  
Bottom Samples

The bottom seemed to be about  
5 1/2 feet below the surface of  
the liquid, or about 9 feet  
from the pavement.

9:40 am.

pH approx 1

Cloudy Blue liquid

→ this <sup>(2 bottles)</sup> sample taken simultaneously, but at 2 levels near bottom.

O2-A

2 x 250 ml plastic bottles cyanides  
from bottom. - Attempted to  
preserve ~~with~~ NaOH, but insufficient

O2-B

1 x 500 ml glass bottle  
taken from about 3 feet deep  
in the pool because of sampler.  
for EPToxicity & Metals

QUANTITY  
TO BRING  
PH ↑

O2-C.

1 x 250 ml ~~plastic~~ <sup>glass</sup>  
from about 3 ft deep  
for phenols  $U_5O_4$  &  $H_3PO_4$  for pres.

O2-D

1 x 250 ml plastic  
for metals - no preservatives

O2-E

1 x 1 pint from bottom  
for organics.

H 1 R 28 - 03

Sample taken from drum pump hose after disconnecting it. 10<sup>45</sup> AM

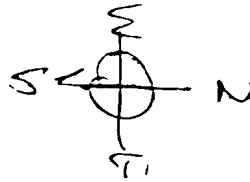
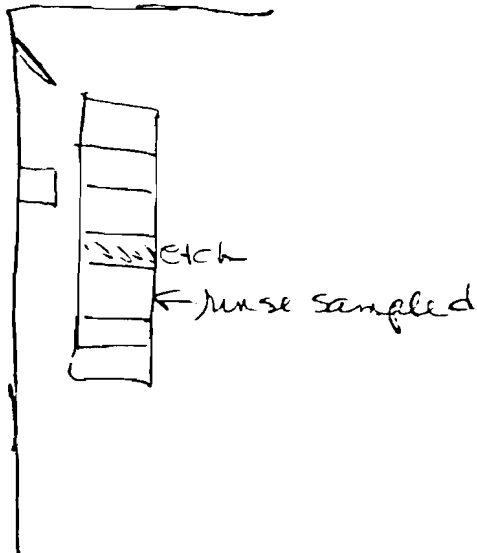
Received from:  
Suffolk Co. Dept. of Health

NO A B or C

D. 1 x 250 ml plastic for metals  
no preservation.

E. 1 pint glass jar for Organics;

at 10:23 dye was added to the inside drain -  
At 10:28 the dye reached the outside pool.



for 04

were...  
bo. larger bottle HIR 28-04B - also glass + 04-90.

1/18/73

# 1R28-04

~~1R28-04~~

Received from:  
Suffolk Co. Dept. of  
Health

taken from rinse tank  
next to the sea Royal Microetch  
bath. The rinse tank was  
on the left of the concentrate  
bath.

11:05am pH 1

Sulfuric Acid and Hydrogen Peroxide  
were also in with the Microetch

04-A

2 x 250 ml plastic  
for cyanide

04-B

1 x 500 ml glass  
for EP Toxicity & metals

04-C

1 x 250 ml glass bottle #  $CuSO_4$   
 $H_2PO_4$   
for phenols

04-D

1 x 250 ml plastic bottle

04-E

1 pint glass jar  
for argonics

The rinse tank contains clear  
blue liquid with a grey  
sand-like sediment on the  
bottom.

~~The Microetch is supposed to be  
Sulfuric Acid and Hydrogen Peroxide.~~

4 1R28-05

Received from:  
Suffolk Co. Dept. of  
Health

taken from the bottom of a  
4000 gallon indoor holding tank  
inside the rear door.

It holds mixed waste and  
is approximately 7ft high  
It is filled to within 8 inches  
of the top.

11:30 am.

pH approx 2

05-A(1) 2 Separate grab samples in  
-A(2) order to reach the bottom  
250 ml plastic bottles.

B.- Not a bottom sample  
taken from as close to the  
bottom as possible.  
500ml glass bottle  
for EP Toxicity & metals

C. 1 x 250 ml glass bottle for  
phenols + CuSO<sub>4</sub> & H<sub>3</sub>PO<sub>4</sub>

D. 1 x 250 ml plastic bottle  
for metals

E. ① 1 pint glass jar  
for organics

The liquid was cloudy green blue at the  
surface of the tank and grey, thick, opaque

at the bottom of the tank

p. 20 of 30

Received from:  
Suffolk Co. Dept. of  
Health



Received from:  
Suffolk Co. Dept. of  
Health

An ASI Machine in the Dry Process Room  
contained liquid (cloudy colorless)  
with a pH of approx 8 to 12 between  
the 2 sections.

A pipe led from the machine  
through a wall and to a  
outlet that could be drained  
into the open drain pipe.

All sampling was completed at 11:45 am.

Present on this day 10/29/83 were

- John Gladysz (SCAD)
- Eileen Governale
- Jim Whitney
- Joe Centrella } SC Investigators
- Jesus Durban }
- Robert Agenjo }
- Dorothy Thumm NYS DEC

Received from:  
Suffolk Co. Dept. of  
Health

RECRA RESEARCH, INC.  
CHAIN OF CUSTODY RECORD

1221/30

PROJECT#: HIR28 PROJECT NAME: EC  
STUDY AREA: \_\_\_\_\_ SAMPLERS SIGNATURE: Eileen Governale

STATION#	DATE	TIME	SUBSAMPLE CODES	TOTAL # OF SAMPLES	REMARKS
HIR28	10/29/83	11:45 AM	-01-B	1	1 jar - 500ml
HIR28	10/29/83	11:45 AM	-02-B	1	1 jar - 500ml
HIR28	10/29/83	11:45 AM	-04-B	1	1 jar - 500ml
HIR28	10/29/83	11:45 AM	-05-B	1	1 jar - 500ml

Relinquished By: <u>Eileen Governale</u>	Date/Time: 10/29/83 1:40 PM	Received By: <u>D. Thurman</u> KYS. DEC	Comments: <u>for transport &amp; analysis</u>
Relinquished By:	Date Time	Received By:	Comments:
Method of Shipment <u>FEDERAL EXPRESS</u>	Shipped By:	Received By:	Comments:

Received for Laboratory: \_\_\_\_\_ Authorization for Disposal: \_\_\_\_\_  
Job #: \_\_\_\_\_ Type of Disposal: \_\_\_\_\_  
Date Time: \_\_\_\_\_ Date of Disposal: \_\_\_\_\_

COUNTY OF SUFFOLK

12.23.83

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

January 4, 1984

EMR Circuits, Inc.  
99 Marcus Blvd.  
Hauppauge, New York 11788

Gentlemen:

On 11-18-83 samples taken from a newly exposed second leaching pool connected to floor drain, N side of building were collected by a representative in this Department. The laboratory analysis performed by this Department revealed that this pool is heavily contaminated with organic solvents.

Due to the excessive nature of this discharge, you are directed to have these leaching pools/holding tanks/storm drains pumped of all liquids and sludge by an industrial waste scavenger immediately. A list of approved scavengers may be obtained by calling James Heil, P.E., New York State Department of Environmental Conservation, 751-7900.

You are also directed to notify this office two workdays 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.

If you have any questions, please call me at phone number (516)451-4630.

Very truly yours,

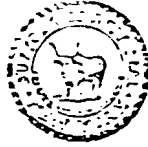
John A. Gladysz  
Environmental Pollution Control

JAG/lc

cc: F. Esienbud, Esq.  
Suffolk County DA's Office

Received from:  
Suffolk Co. Dept. of  
Health

COUNTY OF SUFFOLK



PETER F. COHALAN  
SUFFOLK COUNTY EXECUTIVE

*Page 1/39*

DEPARTMENT OF HEALTH SERVICES

EMR Circuits, Inc.  
99 Marcus Blvd.  
Hauppauge, New York 11788

Date January 4, 1984

SPDES NO. \_\_\_\_\_

Lab. No. IW-1183025

Field No. 1-JG-11-18

Gentlemen:

On 11-18-83 samples of industrial waste were taken from your

Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- |                            |             |                            |            |
|----------------------------|-------------|----------------------------|------------|
| 1. Chloroform              | 320 ppb     | 6. Xylene(s)               | 1400 ppb   |
| 2. 1,1,1 Trichloroethane   | 1600 ppb    | 7. 1,3,5 Trimethylbenzene  | 5200 ppb   |
| 3. 1,1,2 Trichloroethylene | 270,000 ppb | 8. 1,2,4 Trimethylbenzene  | 11,000 ppb |
| 4. Tetrachloroethylene     | 1200 ppb    | 9. 1,2,4 Trichlorobenzene  | 1800 ppb   |
| 5. p-Ethyltoluene          | 10,000 ppb  | 10. 1,2,3 Trichlorobenzene | 1900 ppb   |
|                            |             | 11. Methyl Ethyl-Ketone    | 69,000 ppb |

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred (\$500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John A. Gladysz  
Environmental Pollution Control

(SEE REVERSE SIDE FOR STANDARDS)

cc: F. Esienbud, Suffolk County DA's Office  
Esq.

15 Horseblock Place, Farmingville, N.Y. 11738, (516) 451-4630

REC'D 11-18-83 BY FIA  
FIELD NO. 176-117B

Received from:  
Suffolk Co. Dept. of  
Health

DATE COMPLETED 12-21-83  
EXAMINED BY VMEK  
12/21/83

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR  
Location 99 MARCUS BLVD, HAUPP  
Point of Collection 2ND POOL  
Remarks: RESULTS TO J. GLADYSZ  
ALL UHQ. ALL GTX

Compound	ppb	Compound	ppb
Methylene Chloride.....		Cis Dichloroethylene.....	4400
Freon 113.....	420	Benzene.....	4250
Chloroform.....	320	Toluene.....	4250
1,1,1 Trichloroethane.....	1600	Chlorobenzene.....	4300
Carbon Tetrachloride.....	<5	Ethylbenzene.....	4250
1,1,2 Trichloroethylene.....	27,000	Xylene(s).....	1400
Bromodichloromethane.....	<15	Bromobenzene.....	4400
1,1,2 Trichloroethane.....	425	Chlorotoluene(s).....	4300
Chlorodibromomethane.....	<10	1,3,5 Trimethylbenzene.....	5200
Tetrachloroethylene.....	1200	1,2,4 Trimethylbenzene.....	11000
Bromoform.....	425	m,p-Dichlorobenzene.....	4350
1,1,2,2 Tetrachloroethane...	<15	o-Dichlorobenzene.....	4350
Octane.....	<1000	p-Diethylbenzene.....	4250
Styrene.....	1100	1,2,4,5 Tetramethylbenzene...	4250
n-Nonane.....	<1000	1,2,4 Trichlorobenzene.....	1900
p-Ethyltoluene.....	10,000	1,2,3 Trichlorobenzene.....	1900
n-Decane.....	<1000		
n-Undecane.....	4100	methyl Ethyl Ketone .....	69,000

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           |
|-------------------|------------------------|-----------------------|-----------------|----------------|
| 1. Collected by   |                        |                       |                 |                |
| 2. Transferred to | <u>E. CURCIA</u>       | <u>S.C.D.H.S.</u>     | <u>11/18/83</u> | <u>1:15 PM</u> |
| 3. Transferred to | <u>Francis Amabile</u> | <u>S.C.D.H.S.-PHL</u> | <u>11-18-83</u> | <u>2:05 PM</u> |
| 4. Transferred to |                        |                       |                 |                |

1126/30

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name EMR Circuits Inc Received from: Suffolk Co. Dept. of Health  
Location 99 Marcus Blvd, Hamp.  
Point of Collection 1<sup>st</sup> ind. pool (precast) 2 ft from North 40 Bldg.  
Remarks:

Compound	ppb	Compound	ppb
Methylene Chloride.....		Cis Dichloroethylene.....	<400
Freon 113.....	<20	Benzene.....	<250
Chloroform.....	<25	Toluene.....	<250
1,1,1 Trichloroethane.....	<10	Chlorobenzene.....	<300
Carbon Tetrachloride.....	<5	Ethylbenzene.....	<250
1,1,2 Trichloroethylene.....	750	Xylene(s).....	<250
Bromodichloromethane.....	<15	Bromobenzene.....	<400
1,1,2 Trichloroethane.....	<25	Chlorotoluene(s).....	<300
Chlorodibromomethane.....	<10	1,3,5 Trimethylbenzene.....	<250
Tetrachloroethylene.....	<10	1,2,4 Trimethylbenzene.....	<250
Bromoform.....	<25	m,p-Dichlorobenzene.....	<350
1,1,1,2,2 Tetrachloroethane...	<15	o-Dichlorobenzene.....	<550
Octane.....	<1000	p-Diethylbenzene.....	<250
Styrene.....	<250	1,2,4,5 Tetramethylbenzene....	<250
n-Nonane.....	<1000	1,2,4 Trichlorobenzene.....	<400
p-Ethyltoluene.....	<250	1,2,3 Trichlorobenzene.....	<450
n-Decane.....	<1000		
n-Undecane.....	<1000	methyl ethyl ketone	1200

Collection 1-25-84  
FAC

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
1. Collected by	<u>Eileen Joverale</u>	<u>SCDHS</u>	<u>1-25-84</u>	<u>1:05 PM</u>
2. Transferred to	<u>Francis J. Amendola</u>	<u>SCDHS-PHL</u>	<u>1-25-84</u>	<u>1:25 PM</u>
3. Transferred to				
4. Transferred to				

COUNTY OF SUFFOLK  
 DEPARTMENT OF HEALTH SERVICES  
 ENVIRONMENTAL POLLUTION CONTROL  
 15 Horseblock Place  
 Farmingville, New York 11738  
 516/451-4633

Received from:  
 Suffolk Co. Dept. of  
 Health

LETTER OF TRANSMITTAL

DATE 3/22/84 JOB NO.   
 ATTENTION   
 RE EMR Circuits  
 Article 12  
 Applications  
 for new location  
 of Cabot Ct. Housp.

Paul Winick PE  
 471 Town Line Rd  
 Hounsing 11788

GENTLEMEN:

- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:
- Shop drawings  Prints  Plans  Samples  Specifications
- Copy of letter  Change order  \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1			Article 12
3			Applications to construct
1			#10 schedule
4			Registration Form & Instructions

THESE ARE TRANSMITTED as checked below:

- For approval  Approved as submitted  Resubmit \_\_\_\_\_ copies for approval
- For your use  Approved as noted  Submit \_\_\_\_\_ copies for distribution
- As requested  Returned for corrections  Return \_\_\_\_\_ corrected prints
- For review and comment  \_\_\_\_\_
- FOR BIDS DUE \_\_\_\_\_ 19 \_\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

REMARKS: All tanks and drum storage areas must be registered and brought back to operation. 3 copies of your plans should be submitted for approval. See the appropriate sections of the code for requirements.

COPY TO EMR, file SIGNED: [Signature]

log  
 Reinsp Letter Sample  
 p. 28-130  
 Art XII Ref. Sample  
 Air, Jim M. File 22

NAME OF FACILITY <b>EMR Curcuits Inc.</b>		OWNER/OFFICER <b>Stu Wood, Pres.</b>	PAGE 1 OF
COMPANY NAME		CONTACT <b>Pat Osani, Sec, Tres.</b>	TEL.
PLANT ADDRESS <b>99 Marcus Blvd</b>	VILLAGE <b>Hempstead</b>	TOWN <b>Smithtown</b>	ZIP
MAILING ADDRESS			

DATE <b>3-5-84</b>	TIME	ORIG. <input checked="" type="radio"/> PERIODIC <input type="radio"/> RE. <input type="radio"/>	WASTE <input checked="" type="radio"/>	NO WASTE <input type="radio"/>	H&H <input checked="" type="radio"/>	SEWAGE SYSTEM	PUBLIC PRIVATE <input checked="" type="radio"/>
-----------------------	------	----------------------------------------------------------------------------------------------------	-------------------------------------------	-----------------------------------	-----------------------------------------	---------------	----------------------------------------------------

INDUSTRY **P.C. board manufacturer**

SPDES OR SPDES PERMIT? YES <input type="radio"/> NO <input checked="" type="radio"/>	PERMIT NO.	360 PERMIT? YES <input type="radio"/> NO <input checked="" type="radio"/>	PERMIT NO.
-----------------------------------------------------------------------------------------	------------	------------------------------------------------------------------------------	------------

SCAVENGER **Envirite Old Waterbury Rd Thomason Ct.** TEL.

SCAVENGER APPROVED <input checked="" type="radio"/> YES <input type="radio"/> NO	PICK UP RECORDS AVAILABLE <input checked="" type="radio"/> YES <input type="radio"/> NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION <input checked="" type="radio"/> YES <input type="radio"/> NO
-------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------

HEATING SYSTEM-MFG NAME	FUEL TYPE <b>Gas</b>	FIRING RATE
-------------------------	-------------------------	-------------

INCIN. NAME <b>NO</b>	WASTE BURNED <b>NO</b>	RATE
--------------------------	---------------------------	------

DRUM STORAGE <input checked="" type="radio"/> YES <input type="radio"/> NO	NUMBER STORED INDOORS <b>53</b> OUTDOORS <b>0</b>	TYPE OF MATERIAL STORED <input checked="" type="radio"/> WASTE <input checked="" type="radio"/> RAW
-------------------------------------------------------------------------------	------------------------------------------------------	--------------------------------------------------------------------------------------------------------

STORAGE TANKS <input checked="" type="radio"/> YES <input type="radio"/> NO	NUMBER OF TANKS ABOVEGROUND <b>3</b> UNDERGROUND	TYPE OF MATERIAL STORED <input checked="" type="radio"/> WASTE <input type="radio"/> RAW
--------------------------------------------------------------------------------	-----------------------------------------------------	---------------------------------------------------------------------------------------------

OPEN PROCESS TANKS <input checked="" type="radio"/> YES <input type="radio"/> NO	NUMBER OF OPEN PROCESS TANKS <b>Many</b>	ANY ART. XII VIOLATIONS <input checked="" type="radio"/> YES <input type="radio"/> NO
-------------------------------------------------------------------------------------	---------------------------------------------	------------------------------------------------------------------------------------------

EMR Curcuits Inc. is trying to obtain new location by early summer.

Business to continue to obtain + hold on file scavenger receipts for all waste pickups.

PERMISSION IS 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.

REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_ . FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT 	TITLE <b>President</b>	INSPECTOR <b>James A. Whitney</b>
---------------------------------	---------------------------	--------------------------------------



NO.	PROCESS	CHEMICALS USED AND APPROXIMATE QUANTITY	DISCHARGE	DIR.
1	Screen cleaning.	MEK	waste MEK	H+H
2	Developer dry film	Film processor DYNACHOM., rinse	same	H+H
3	U.V. developers	none		
4	dark room	developer, fix, rinse	same	H+H
5	P.C. board drilling & cutting	none		
6	<u>Plating room.</u>	acids, rinses, bases	same	H+H
7	reflow machine + rinse	<u>flux, rinse</u>	waste flux	H+H
8	board scrubber	water	waste water	H+H
9.	<u>aboveground waste tank</u>	2 x 300 gal plastic 4000 gal steel		
10.	<u>etch machine</u>	etchant, rinse	same	H+H
	2 x 55 gal repleisher 8 x 55 gal spent etch			
11.	<u>inside drum storage</u>	50 x 55 gal acids, rinse water, alcohol, activator.		

## AIR POLLUTION SOURCES

18-155

NO.	PROCESS	CONTROL TYPE	EP'S	CHEMICALS OR PRODUCTS USED	AMOUNT CONSUM.	HOURS OF OPERA.	TYPE OF EMISSION
3	2 U.V. developers	none	2	Film		8 hr/day	hex
10	etch machine	none	1	etchant		8 hr/day	Fume

received from:  
Suffolk Co. Dept. of  
Health

1/26/79

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

Received from  
 Suffolk Co. Dept. of Health

18-247-232

FIELD NO. 2EK 8-17 LAB NO. 8/14-203 DATE COMPLETED 8/30/84

NAME OR FIRM EM R CURCITS  
 ADDRESS OR LOCATION 99 MARCUS BLVD  
 POINT OF COLLECTION WASH WATER DRUM  
 REMARKS/INSTRUCTIONS LAST WASH

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	✓ COPPER	<u>1.1 x 10<sup>-2</sup> Mg/l</u>
CHLORIDE	Mg/l	SUSPENDED SOLIDS		✓ IRON	<u>3 x 10<sup>-1</sup></u>
CYANIDE		DISSOLVED SOLIDS		✓ MANGANESE	<i>not for 2nd test</i>
MBAS				✓ CHROMIUM-TOT	<u>.4</u>
COD				✓ NICKEL	<u>2.4</u>
TOC				✓ ZINC	<u>1 x 10<sup>-1</sup></u>
				✓ LEAD	<u>1.</u>
				✓ CADMIUM	<u>.4</u>
NITRATE-N				✓ SILVER	<u>&lt;.02</u>
NITRITE				✓ CHROMIUM-+6	<u>.03</u>
AMMONIA-N					<u>14/5/19</u>
TKN		pH (FIELD)	<u>neutral</u>		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>Spencer Wilson</u>	<u>SOCS HS</u>	<u>8/17/84</u>	<u>1:10 pm</u>
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY			<u>8/17</u>	<u>3:30</u>
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

For the Record Re: EMR Circuits Inc, 99 Marcus Blvd.  
Hempstead N.Y.

On 11-11-83, I observed the cleaning of the contaminated cesspool located 10' North of EMR Circuits. The liquid contents of the pool were pumped out, the walls and leaching slots were cleaned with a high pressure water spray, and all sludges were removed from the pool bottom. This work was done by RGM. In my opinion the pool was adequately cleaned.

On 11-14-83 I again visited EMR Circuits Inc. At that time, I noted that the cesspool located 10' north of EMR Circuits had been completely filled in with clean sand + gravel.

11-15-83

James A. Whitney, P.H.S.

EMR CIRCUITS INC.

Appendix 1.1-15  
Received from:  
Suffolk Co. Dept. of  
Health

8-1-13

QUALITY PRINTED WIRING BOARDS 99 Marcus Blvd. Hauppauge, N. Y. 11788 Phone: 516 273-8880

November 18, 1983

SUFFOLK COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
15 HORSEBLOCK PLACE  
FARMINGVILLE, N.Y. 11738

Attn: Mr. John Gladyse - District Office

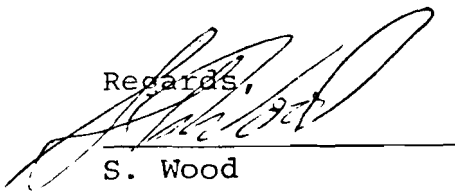
RE: HAZARDOUS WASTE MANIFEST;  
EMR CIRCUITS, INC.

Dear Sir:

Please find a copy of Document No. 1567125 regarding the hauling of 4900 gallons of Hazardous Waste on 11/18/83 from 99 Marcus Blvd. by the Envirite Corp.

This is being supplied to you per your verbal request on 11/18/83.

Regards,

  
S. Wood

SW:an  
Encl.

RECEIVED

NOV 23 1983

SUFFOLK COUNTY DEPT.  
HEALTH SERVICES

Received from:  
Suffolk Co. Dept. of  
Health

12/13

14-1 (11/80)

See cover sheet  
for instructions

STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
HAZARDOUS WASTE MANIFEST

DOCUMENT NO. NY 156712 5

Part A:

GENERATOR NAME EMR Circuits	PHONE 516 273 3350	EPA ID NO. WYD01521777273
SITE ADDRESS 99 Marcus Blvd Hempstead LI NY		
TRANSPORTER NO 1 Dowrite	PHONE 203-283-8235	EPA ID NO. CTD0936146413
SITE ADDRESS Old Waterbury Rd., Thomaston, Ct. 06782		
TRANSPORTER NO 2	PHONE	
SITE ADDRESS		
TREATMENT STORAGE OR DISPOSAL (TSD) FACILITY Dowrite	PHONE	EPA ID NO. CTD0936146413
SITE ADDRESS		

THIS FORM IS ONE OF A TOTAL OF \_\_\_\_\_ THE FIRST MANIFEST DOCUMENT NO IS NY \_\_\_\_\_

PROPERLY SHIPPED NAME	US DOT HAZARD CLASS	UNNA NUMBER FORM	NET QUANTITY	UNITS	CONTAINERS		EPA HAZ CODE	EPA WASTE TYPE
					NO.	TYPE		
EMR-E	299	NA39	549	gals	001	CT	E	D002

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION AND IDENTIFICATION OF ADDITIONAL WASTES INCLUDED IN SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED.

GENERATOR'S CERTIFICATION: This is to certify that the herein named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA. The wastes described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. This shipment also conforms with all applicable State regulations. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE C. Gliniski Please type name also	DATE SHIPPED 12/13/83 MO Day Yr	EXPECTED ARRIVAL DATE 12/13/83 MO Day Yr
TRANSPORTER NO. 1 SIGNATURE To the best of my knowledge the contents of the shipment I have accepted for transport conforms with the description on this manifest. [Signature]	TRANSPORTER NO. 1 PERMIT NUMBER	DATE RECEIVED

Received from:  
Suffolk Co. Dept. of  
Health

1373



**ENVIRITE**

OLD WATERBURY ROAD  
THOMASTON CT 06287

TV 1910

**BILL OF LADING**

119 8538

ORIGIN WATERBURY, CT

PICKUP DATE 11/11/73

DESTINATION ROSELAND, CT

DELIVERY DATE 11/11/73

CONSIGNOR T.R. CLAUDE

CONSIGNEE ENVIRITE

COMMODITY Flammable waste liquids, U.O.S.

QUANTITY  
55 4900    
55 4900

55 lbs/gal

**TOTAL**

**ASK LOADER TO VERIFY PRODUCT SHOWN ABOVE**

SIGNATURE \_\_\_\_\_

TRACTOR \_\_\_\_\_ TRAILER 2320 DRIVER \_\_\_\_\_

JMP ORDERED	<input type="checkbox"/>	<input type="checkbox"/>	YES	NO	FT. HOSE	<input type="checkbox"/>	<input type="checkbox"/>	WEIGH CHARGE	<input type="checkbox"/>	<input type="checkbox"/>	YES	NO
USED TO LOAD	<input type="checkbox"/>	<input type="checkbox"/>			VAC. ORDERED	<input type="checkbox"/>	<input type="checkbox"/>	WEEKEND CHARGE	<input type="checkbox"/>	<input type="checkbox"/>		
CUSTOMER PUMP	<input type="checkbox"/>	<input type="checkbox"/>						DELAY CHARGE	<input type="checkbox"/>	<input type="checkbox"/>		

**DRIVERS MUST USE SPECIFIED SAFETY EQUIPMENT & PROCEDURES**

TRAILER TYPE SS PLACARD \_\_\_\_\_ HONS \_\_\_\_\_

HARD HAT       RUBBER GLOVES       FACE SHIELD  
 ACID SUIT       GAS MASK       SAFETY WATER  
 OTHER SA      DRUM & BULK PICK UP

IF PRODUCT TEMPERATURE IS OVER 115 °F, CALL ENVIRITE

DEPARTED ENVIRITE	A.M.	P.M.	ARRIVE ENVIRITE	A.M.	P.M.
ARRIVAL AT CUSTOMER			TIME SAMPLED		
STARTED LOADING			TIME UNHOOKED		
DEPARTED CUSTOMER			TIME DEPARTED		

TOTAL ROUNDTRIP TIME \_\_\_\_\_ Hrs. \_\_\_\_\_ Min.

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

RELEASE \_\_\_\_\_  
END \_\_\_\_\_  
START \_\_\_\_\_  
TOTAL \_\_\_\_\_

Received from:  
 Suffolk Co. Dept. of Health Services  
 INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL  
 15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738  
 (516) 451-4633

Log  Appendix 1.1-16  
 New  Comp   
 Art XII  Letter   
 Air  Sample  p1 of 2

NAME OF FACILITY EMR Circuits-		OWNER/OFFICER	PAGE 1 OF
COMPANY NAME		CONTACT Stuart Wood	TEL. 273-8880
PLANT ADDRESS 99 Marcus Blvd		VILLAGE	TOWN pres. ZIP
MAILING ADDRESS			
DATE 6-15-84	TIME	ORIG. PERIODIC RE.	WASTE NO WASTE <input checked="" type="radio"/> H&H SEWAGE SYSTEM <input checked="" type="radio"/> PUBLIC PRIVATE

INDUSTRY PC Boards			
PDES OR PDES PERMIT? YES <input checked="" type="radio"/> NO <input type="radio"/> PERMIT NO.		360 PERMIT? YES NO PERMIT NO.	

SCAVENGER RGM		TEL.	
SCAVENGER APPROVED <input checked="" type="radio"/> YES <input type="radio"/> NO	PICK UP RECORDS AVAILABLE YES NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES NO	

HEATING SYSTEM - MFG NAME		Received from: Suffolk Co. Dept. of Health		FUEL TYPE	FIRING RATE
INCIN. NAME		WASTE BURNED		RATE	

DRUM STORAGE YES NO	NUMBER STORED INDOORS OUTDOORS	TYPE OF MATERIAL STORED WASTE RAW		
STORAGE TANKS YES NO	NUMBER OF TANKS ABOVEGROUND UNDERGROUND	TYPE OF MATERIAL STORED WASTE RAW		
OPEN PROCESS TANKS YES NO	NUMBER OF OPEN PROCESS TANKS	ANY ART. XII VIOLATIONS YES NO		

- Moving next week. plan to have RGM pump out all rinse tanks. ~~at~~ by Thursday 6-21. SCDHS personnel would want to attend pump out.

- Company must bring inside 2-cut off 55 gallon drums containing blue liquid & debris. This must be treated as a hazardous material.

Violation not issued

PERMISSION IS 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.

REINSPECTION SCHEDULED ON OR AFTER \_\_\_\_\_ . FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT 	TITLE 	INSPECTOR Eileen Jovernal 
-----------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
DIVISION OF ENVIRONMENTAL HEALTH SERVICES  
BUREAU OF ENVIRONMENTAL POLLUTION CONTROL

120/2

NOTICE OF VIOLATION

Received from:  
Suffolk Co. Dept. of  
Health

Issued to (Company) E.M.R. Circuits  
(address) 99 Marcus Blvd, Haupp.  
delivered to \_\_\_\_\_  
On (date, time) 6-15-84

TAKE NOTICE THAT, on 6-15-84 at 11:30 in the (fore) (after) noon, at the location of 99 Marcus Blvd, Haupp.

you were found to be in violation of Article XII Section 1215 a of the Suffolk County Sanitary Code in that:

2 <sup>open</sup> cut off 55 gallon drums put back by  
dumpster + containing <sup>metal</sup> scrap + garbage are 2/3  
full of blue liquid - smelling of ammonia with pH of  
9. Drums are uncovered + unprotected

TAKE FURTHER NOTICE THAT, pursuant to Article 3 of the New York State Public Health Law, Article 2 of the Suffolk County Sanitary Code provides that any non-compliance or non-conformance with any provision of the Suffolk County Sanitary Code shall constitute a violation, punishable on conviction by a fine not exceeding \$250 or by imprisonment for not exceeding 15 days or by both.

TAKE FURTHER NOTICE THAT, Article 2 of the Suffolk County Sanitary Code provides that any person violating its terms or a lawful order or regulation made thereunder, shall be subject to a civil penalty of not more than \$500 per violation for each day such violation continues.

Issued by Eileen Governale





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

COMMUNICATIONS RECORD FORM

Distribution: (x) File, ( ) , ( ) , ( ) Author

Person Contacted: Eileen Governale Date: 5/22/87 and 5/26/87

Phone Number: (516) 451-4633 Title: Public Health Sanitarian

Affiliation: SCDHS Type of Contact: Telephone

Address: 15 Horseblock Place Farmingville, New York 11783 Person Making Contact: Eileen Metzger

Communications Summary: I called Eileen for confirmation on the clean out of the leachpools. She said that EMB pumped out the 1st leachpool (10 ft from the building) on 11/11/83. On 11/14/83, according to another SCDHSD inspector the leachpool was backfilled with sand. A second leachpool was discovered at this time (2 ft from the building). This pool was sampled on 11/18/83 and found to be contaminated. The 2nd leachpool was cleaned out on 1-25-84.

Eileen also confirmed that Stewart Wood pleaded guilty to charges and served a jail term.

(see over for additional space)

Signature: Eileen S. Metzger

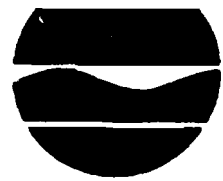
New York State Department of Environmental Conservation

Bureau of Environmental Conservation Investigation

RECORD OF TELEPHONE CONVERSATION

RECEIVED FROM NYSDEC  
DIVISION OF ENVIRONMENTAL  
ENFORCEMENT  
WHITE PLAINS

Appendix 1.1-18



Henry G. Williams  
Commissioner

CASE # \_\_\_\_\_

SUBJECT EMR Circuits / RGM- - Results of DOH sampling ~~and test~~

TIME OF CALL 1:00 PM DATE OF CALL 01/18/84

INDIVIDUAL CALLED Eileen Governale TITLE \_\_\_\_\_

REPRESENTING Suffolk County Dept of Health

PHONE # (516) 451-4632

NOTES: Samples were recently collected. EMR expects to be cleaning out at the end of this week. RGM is supposed to call DOH to confirm the date. Eileen will call White Plains <sup>when</sup> she ~~hears anything~~ learns the date.

Samples were analyzed for organics. The results are:

Chloroform	320 ppb	1,3,5-trimethylbenzene	5200
1,1,1-TCEA	1600 ppb	1,2,4 "	11,000
1,1,2-TCE	270,000 ppb	1,2,4-trichlorobenzene	1800
PCE	1200	1,2,3- "	1900
Styrene	1100	MEK	69,000
paraethyltoluene	10,000		
Xylene	1400		

Quantity in tank > 1000 lbs

INVESTIGATOR: T. Gerrish UNIT: D.E.E.

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Suffolk Co. Dept. of Health

Name (old) EMR Circuits Inc

Location 99 Marcus Blvd, Hauppauge

Point of Collection monitoring + observe well - North 3/0 Bldg.

Remarks: Sample at 115' depth (depth to GW = 102.87')

Compound	pbb	Compound	ppb
Methylene Chloride	23	Cis Dichloroethylene	<20
Freon 113	<20	Benzene	<20
Chloroform	<20	Toluene	<20
1,1,1 Trichloroethane	390	Chlorobenzene	<20
Carbon Tetrachloride	<20	Ethylbenzene	<20
1,1,2 Trichloroethylene	<20	Xylene(s)	<20
Bromodichloromethane	—	Bromobenzene	<20
1,1,2 Trichloroethane	<20	Chlorotoluene(s)	<20
Chlorodibromomethane	—	1,3,5 Trimethylbenzene	<20
Tetrachloroethylene	<20	1,2,4 Trimethylbenzene	<20
Bromoform	<20	m,p-Dichlorobenzene	<20
1,1,2,2 Tetrachloroethane	<20	o-Dichlorobenzene	<20
Octane	<20	p-Diethylbenzene	<20
Styrene	<20	1,2,4,5 Tetramethylbenzene	<20
n-Nonane	<20	1,2,4 Trichlorobenzene	<20
p-Ethyltoluene	<20	1,2,3 Trichlorobenzene	<20
n-Decane	<20	1,1 Dichloroethane	<20
n-Undecane	<20	1,2 Dichloroethane	<20
		1,1 Dichloroethylene	<20

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
1. Collected by	<u>Eileen Gervasio</u>	<u>SCDHS</u>	<u>3-22-85</u>	<u>5:00 PM</u>
2. Transferred to	<u>Francis Amendola</u>	<u>SCDHS-PHC</u>	<u>3-22-85</u>	<u>5:40 PM</u>
3. Transferred to				
4. Transferred to				

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

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Received from:  
 Suffolk Co. Dept. of Health

Name <sup>(old)</sup> EMR CIRCUITS

Location 99 Marcus Blvd, Hauppauge

Point of Collection monitoring & obser well - on North 5/0 Bldg

Remarks: sample at 127' depth - (depth to GW 102.87')

Compound	pbb	Compound	ppb
Methylene Chloride.....	<20	Cis Dichloroethylene.....	<20
Freon 113.....	<20	Benzene.....	<20
Chloroform.....	<20	Toluene.....	<20
1,1,1 Trichloroethane.....	<20	Chlorobenzene.....	<20
Carbon Tetrachloride.....	<20	Ethylbenzene.....	<20
1,1,2 Trichloroethylene.....	<20	Xylene(s).....	<20
Bromodichloromethane.....	—	Bromobenzene.....	<20
1,1,2 Trichloroethane.....	<20	Chlorotoluene(s).....	<20
Chlorodibromomethane.....	—	1,3,5 Trimethylbenzene.....	<20
Tetrachloroethylene.....	<20	1,2,4 Trimethylbenzene.....	<20
Bromoform.....	<20	m,p-Dichlorobenzene.....	<20
1,1,2,2 Tetrachloroethane...	<20	o-Dichlorobenzene.....	<20
Octane.....	<20	p-Diethylbenzene.....	<20
Styrene.....	<20	1,2,4,5 Tetramethylbenzene...	<20
n-Nonane.....	<20	1,2,4 Trichlorobenzene.....	<20
p-Ethyltoluene.....	<20	1,2,3 Trichlorobenzene.....	<20
n-Decane.....	<20	1,1 Dichloro ethane.....	<20
n-Undecane.....	<20	1,2 Dichloro ethane.....	<20
		1,1 Dichloro ethene.....	<20

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
1. Collected by	<u>Aileen Governale</u>	<u>SCDHS</u>	<u>3-22-85</u>	<u>3:50 PM</u>
2. Transferred to	<u>Francis Amendola</u>	<u>SCDHS-PAC</u>	<u>3-22-85</u>	<u>5:40 PM</u>
3. Transferred to				
4. Transferred to				

Received from:

Suffolk County Health Services Laboratory

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. EG-3-22 LAB NO. 3-85-284 DATE COMPLETED 4/2/85

NAME OR FIRM (old) EMR Circuits  
ADDRESS OR LOCATION 99 Marcus Blvd Haupp.  
POINT OF COLLECTION soil from installation of monitoring well  
REMARKS/INSTRUCTIONS at depth ~ 60 feet

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
PH(LAB)		TOTAL SOLIDS	Mg/l	COPPER	1.6x10 <sup>1</sup>
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	1.2x10 <sup>3</sup>
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	1.5 "
COD		Results of metal analysis of soil sample are approximate values.		NICKEL	3.8 "
TOC				ZINC	3.1 "
				LEAD	< 1.5 "
				CADMIUM	< .15 "
				SILVER	< .15 "
NITRATE-N				CHROMIUM-+6	
NITRITE					
AMMONIA-N					
TKN		PH (FIELD)	neutral		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>Eileen Governale</u>	<u>SCDHS</u>	<u>3-22-85</u>	<u>11:00 AM</u>
2. POSSESSION BY				
3. POSSESSION BY				
4. RECEIVED LAB BY	<u>[Signature]</u>		<u>5/25</u>	<u>11:30</u>
5. POSSESSION BY				
6. POSSESSION BY				

FIELD NO. 2-EG-3-22 LAB NO. 385-285 DATE COMPLETED 9/2/85

NAME OR FIRM (old) EMR Circuits  
ADDRESS OR LOCATION 99 Marcus Blvd, Haupp.  
POINT OF COLLECTION Soil from installation of monitoring well  
REMARKS/INSTRUCTIONS at depth ~ 120 feet

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	8
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	$7.3 \times 10^2$
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	1.3
COD		Results of metal analysis of soil sample are approximate values.		NICKEL	2.6
TOC				ZINC	2.2
				LEAD	< 1.3
				CADMIUM	< .1
NITRATE-N				SILVER	.4
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)			
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>Eileen Governal</u>	<u>SCDHS</u>	<u>3-22-85</u>	<u>12:45 pm</u>
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>[Signature]</u>		<u>5/25</u>	<u>11:30</u>
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

FIELD NO. 3-EG-3-22 LAB NO. 3-85-286 DATE COMPLETED 4/2/85

NAME OR FIRM (old) EMR Circuits - Monitoring + Observation Well  
 ADDRESS OR LOCATION 99 Marcus Blvd. Hamp.  
 POINT OF COLLECTION observation well located on North s/o Blvd  
 REMARKS/INSTRUCTIONS 127' depth (depth to GW 102.87')

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	.08 Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	2x10'
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	.03
COD				NICKEL	<.1
TOC				ZINC	.13
				LEAD	<.2
				CADMIUM	<.02
NITRATE-N				SILVER	<.02
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		PH (FIELD)	by meter on site 6.5		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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.

1. COLLECTED BY	<u>Eileen Gvernale</u>	NAME	<u>SCDHS</u>	AFFILIATION	<u>3-22-85</u>	DATE	<u>3:50 PM</u>	TIME
2. POSSESSION BY	_____		_____		DATE - TIME	TO	DATE - TIME	
3. POSSESSION BY	<u>[Signature]</u>		_____		DATE - TIME	TO	DATE - TIME	
4. RECEIVED LAB BY	_____		_____		DATE - TIME	TO	DATE - TIME	
5. POSSESSION BY	_____		_____		DATE - TIME	TO	DATE - TIME	
6. POSSESSION BY	_____		_____		DATE - TIME	TO	DATE - TIME	

Received from:

Suffolk Co. Dept. of Health

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 4-EG-3-22 LAB NO. 3-85-287 DATE COMPLETED 4/2/85

NAME OR FIRM (old) EMR Circuits  
ADDRESS OR LOCATION 99 Marcus Blvd. Haupp.  
POINT OF COLLECTION obs + monitoring well on North S/O Bldg  
REMARKS/INSTRUCTIONS at 115' depth. (depth to GW 102.87')

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
PH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	.09 Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	<u>2.4 x 10<sup>1</sup></u>
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	.03
COD				NICKEL	<.1
TOC				ZINC	.25
				LEAD	<.2
				CADMIUM	<.02
NITRATE-N				SILVER	<.02
NITRITE				CHROMIUM-+6	<.02
AMMONIA-N			5-6 by paper by meter on site	↑ separate bottle	
TKN		PH (FIELD)	5.2 site		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> TO pH < 2  COOL 4°C

CUSTODY OF SAMPLE

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	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	<u>Aileen Governal</u>	<u>SCDHS</u>	<u>3-22-85</u>	<u>5:00 pm</u>
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>[Signature]</u>		<u>3/25</u>	<u>11:30</u>
5. POSSESSION BY			DATE	TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME



Received from:

Suffolk Co. Dept. of Health

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

16-247: 2/82

FIELD NO. 1-EG-3-27 LAB NO. 3-85-358 DATE COMPLETED 4/2/85

NAME OR FIRM 40 Oser Ave (Clover Graphics, Advanced Purification Systems)  
ADDRESS OR LOCATION Sump behind Bldg  
POINT OF COLLECTION outfall south east c/o sump  
REMARKS/INSTRUCTIONS

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
PH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	<.02 Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS <u>Sep. Bottle</u>				CHROMIUM-TOT	<.02
COD				NICKEL	<.1
TOC				ZINC	1.1
				LEAD	<.2
				CADMIUM	<.02
NITRATE-N				SILVER	<.02
NITRITE				CHROMIUM+6	
AMMONIA-N				<u>Sep. Bottle</u>	
TKN		PH (FIELD)	<u>neutral</u>		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>Eileen Governale</u>	<u>SCD HS</u>	<u>3-27-85</u>	<u>11:00</u>
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>B. Patten</u>		<u>3/27</u>	<u>11:15</u>
5. POSSESSION BY			DATE	TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME
			DATE - TIME	TO DATE - TIME

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. Health

1/9/85

NAME OF FACILITY EMR Circuits		OWNER/OFFICER		PAGE ____ OF ____	
COMPANY NAME 99 Marcus Blvd.		CONTACT		TEL.	
PLANT ADDRESS		VILLAGE	TOWN	ZIP	
MAILING ADDRESS well Drill.					
DATE 3-22-85	TIME	ORIG. PERIODIC RE.	WASTE	NO WASTE	H&H
					SEWAGE SYSTEM
					PUBLIC PRIVATE

Drilling commenced at 9:15 am: A chronology of events & findings follow:

- 8' - bankrun
- 8' → 10' - sand
- 10' → very rocky
- 20' → sand

note: auger threads greased with orange colored non-3TX lubricant

no odor

10:00 am - @ 35' sand coming up from drill beginning to have a slight chemical odor.

increasingly strong odor ↓

- 55' - strong chem odor
- 60' - soil sample taken - metals only, 1-EG-3-22
- 65'

↓  
80

85' - noted visible fumes + heat coming up from center of augers.

95' - ceased drilling due to fumes in area. Operators claimed to feel light-headed. Gas masks acquired.

1 full face (Sven) + 2 1/2 masks used. Drilling resumed.

105' - fumes no longer evident.

1:00 pm. depth 130' - put in casing.

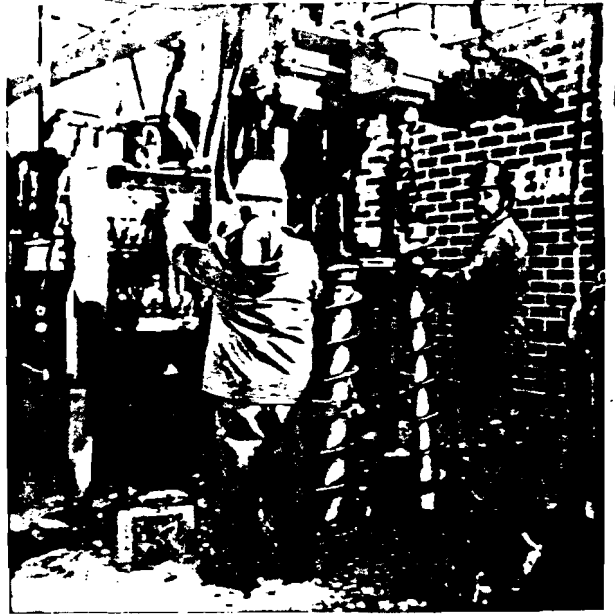
(use small amt H<sub>2</sub>O to knock dirt plug out of casing) (water from Rabro Top)

- soil sample taken for metals (2-EG-3-22)

1:45 PM. began removing augers.

CONTINUED: INSPECTORS OBSERVATIONS OR INT'  
Received from:  
Suffolk Co. Dept. of  
Health

09/14



Hole  
2:40 PM - back-filled with  
sand brought up with  
Augur.

2:50 PM - depth to G.W.  
measured at 102.87 feet

2:55 PM - started bailing  
water very sandy. Very  
slight odor noted by  
2 of 4 people present  
Bailer, <sup>used</sup> made of steel.

3:50 PM: After bailing for  
nearly 1 hour, sample  
taken for metals and  
organics. Sample  
split with Steven

Demaco of NY testing - under contract to landlord  
of 99 Marcus Blvd. Several bails needed  
to obtain sufficient sample. Used a teflon  
bailer cleaned with distilled water - new  
nylon string used.

Sample: @ 127 ft depth 3-EG-3-22  
temp - 12°C  
Spec. cond. 40  
ph - 6.5

4:10 PM - Well tip elevated 12 feet. Began  
bailing with steel bailer.

5:00 PM. Sample with <sup>clean</sup> teflon bailer, split sample  
with NY Testing. metals + organics  
# 4-EG-3-22

Temp = 12°  
sp cond = 67  
ph - 5.2 (6 by paper)

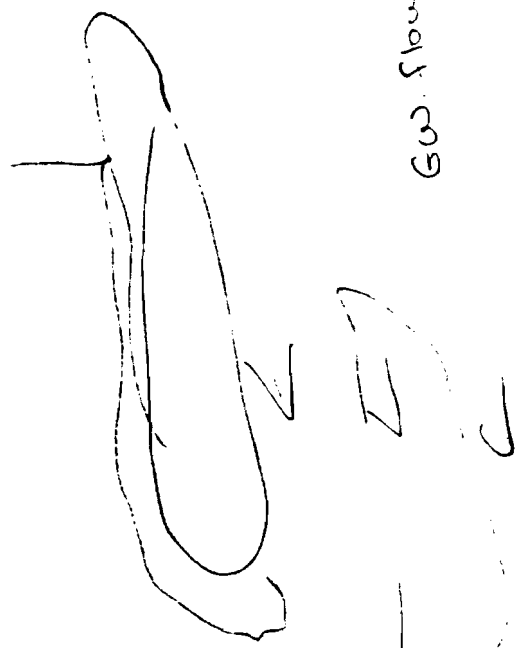
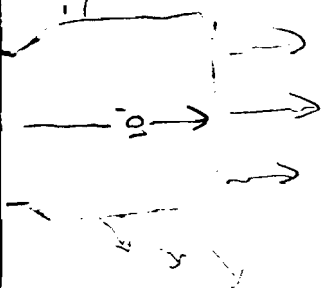
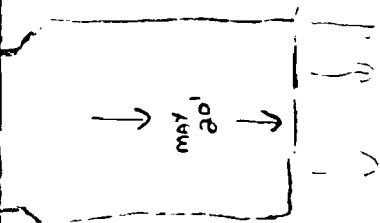
~ 6:00 PM  
Samples taken to ME Lab - organics only.  
Metals preserved & taken to Lab on 3-25.

Eileen Governab

18-234-2182

Received from:  
Suffolk Co. Dept. of  
Health

10/10/14



Good flow

Gas

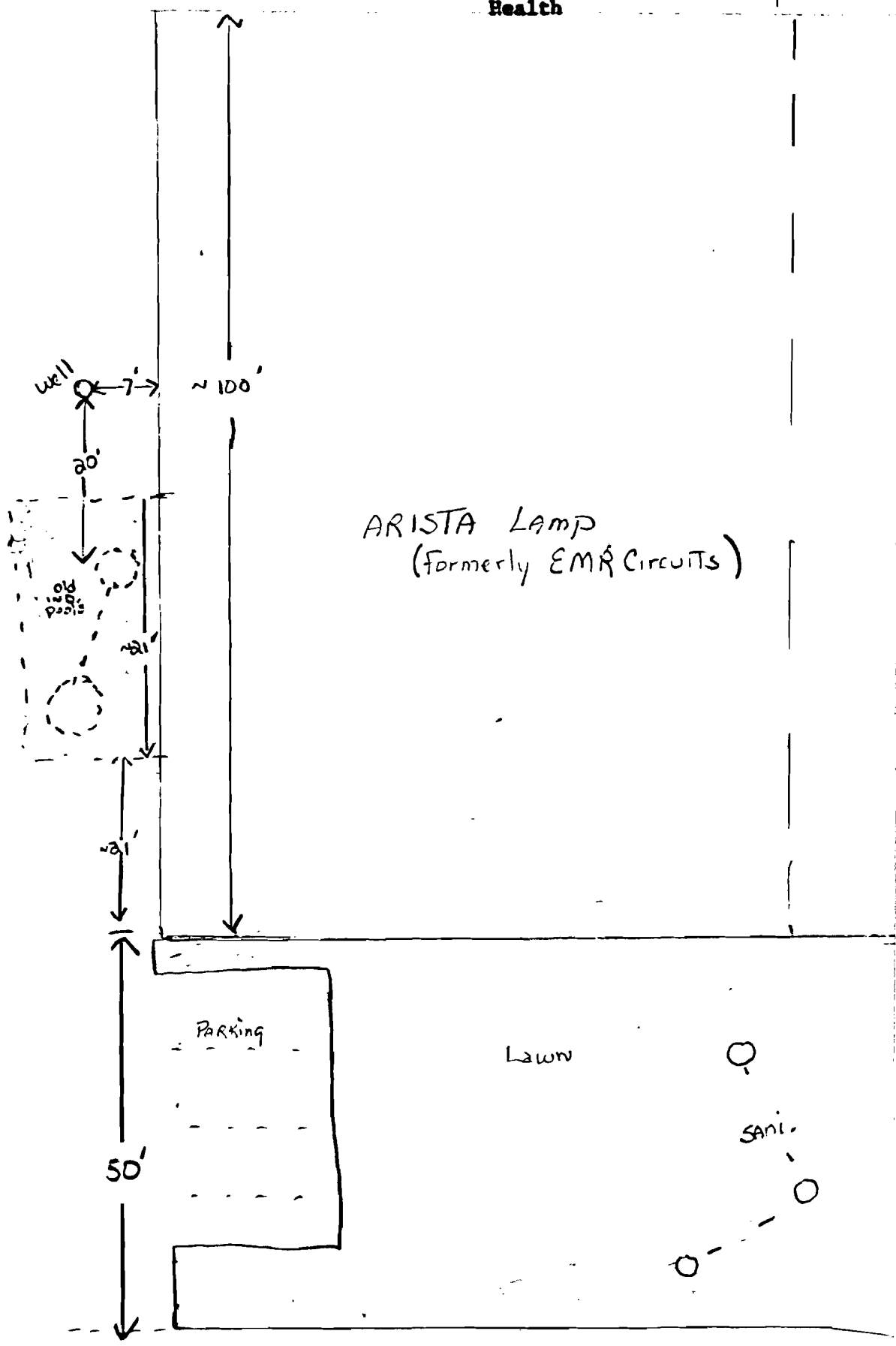
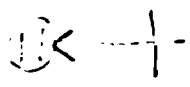
40' Palon  
5/20/14

90'

102.87 ft.

Received from:  
Suffolk Co. Dept. of  
Health

2/11/14



MARCUS BIVD

Trans (1) 10/11/14

Received from:  
Suffolk Co. Dept. of  
Health

File # 120/14  
EMR  
Carcins

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
MEMORANDUM

TO: JOSEPH BAIER  
FROM: RICHARD MARKEL *RM*  
SUBJECT: OVERTIME - EMR DRILLING

DATE: MARCH 25, 1985

On Friday, March 22, 1985 the B-53 drilling crew (Svend Hansen, Frank Iannazzo and Guy Flynn) drilled a 128-foot well at 99 Marcus Boulevard, Town of Smithtown, downstream of a cesspool which was used by EMR, the former tenant in the building.

While drilling between 60-90 feet below grade, a very strong chemical odor was emanating from the hole, which forced the crew to stop drilling. Eileen Governale, who was supervising the drilling crew at the time, came to the writer's office; a decision was made to supply the crew with face masks with organic cartridges so that drilling could continue. While the crew was waiting for the gas masks, the hole vented itself sufficiently so that drilling could continue without the masks.

The well was then drilled to 128 feet, and a 2-foot stainless steel screen installed at 125-127 feet. The well was bailed with a stainless steel bailer. This operation took approximately 1 1/2 hours since the well had to be bailed about 200 times to obtain clear water. Both organic and heavy metals samples were collected. The well was then pulled back 10 feet (115-117 screened interval) and the bailing procedure was repeated.

The crew left the site at approximately 6 p.m. Therefore, 2 hours of overtime were accrued on this drilling operation. The delay in the completion of this well was primarily due to the fact that we encountered the gaseous emissions from the bore hole which required us to obtain gas masks.

RM/jb

cc: S. Cary  
W. Roberts ✓

*recd 4/1/85*

P. 13/14

ETIC Circuits

Received from:  
Suffolk Co. Dept. of  
Health

99 MARCUS

LANDERD - NAME & NEIL H. Klein + Co.  
ADD 160 Great Neck Road  
Great Neck, NY  
Phone (516) 482-7877

Permission to Drill?

WHAT WILL BE TO  
IF IT IS FOUND?

Bill  
OBRIEN VYS - STP N<sub>2</sub> LIST

Received from:  
Suffolk Co. Dept. of  
Health

P 14714

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

TO: William C. Roberts, P.E.  
FROM: Frank M. Randall  
DATE: August 8, 1984  
SUBJECT: EMR Circuits

---

The owner of EMR Circuits, Jack Klein, has asked us for permission to pave over the parking lot in preparing for new tenants to enter the building. However, there is a question of the installation of a monitoring well at that site.

As you are aware, the monitoring well installation was not addressed in the resolution of the case; therefore, it would appear to me that if a monitoring well is to be installed, Mr. Markel must be contacted for such installation. If you concur, I will contact Mr. Markel and ask him to install a monitoring well at that location with a manhole cover for accessibility. We will also direct a letter to Mr. Klein indicating that he can pave the parking lot area.

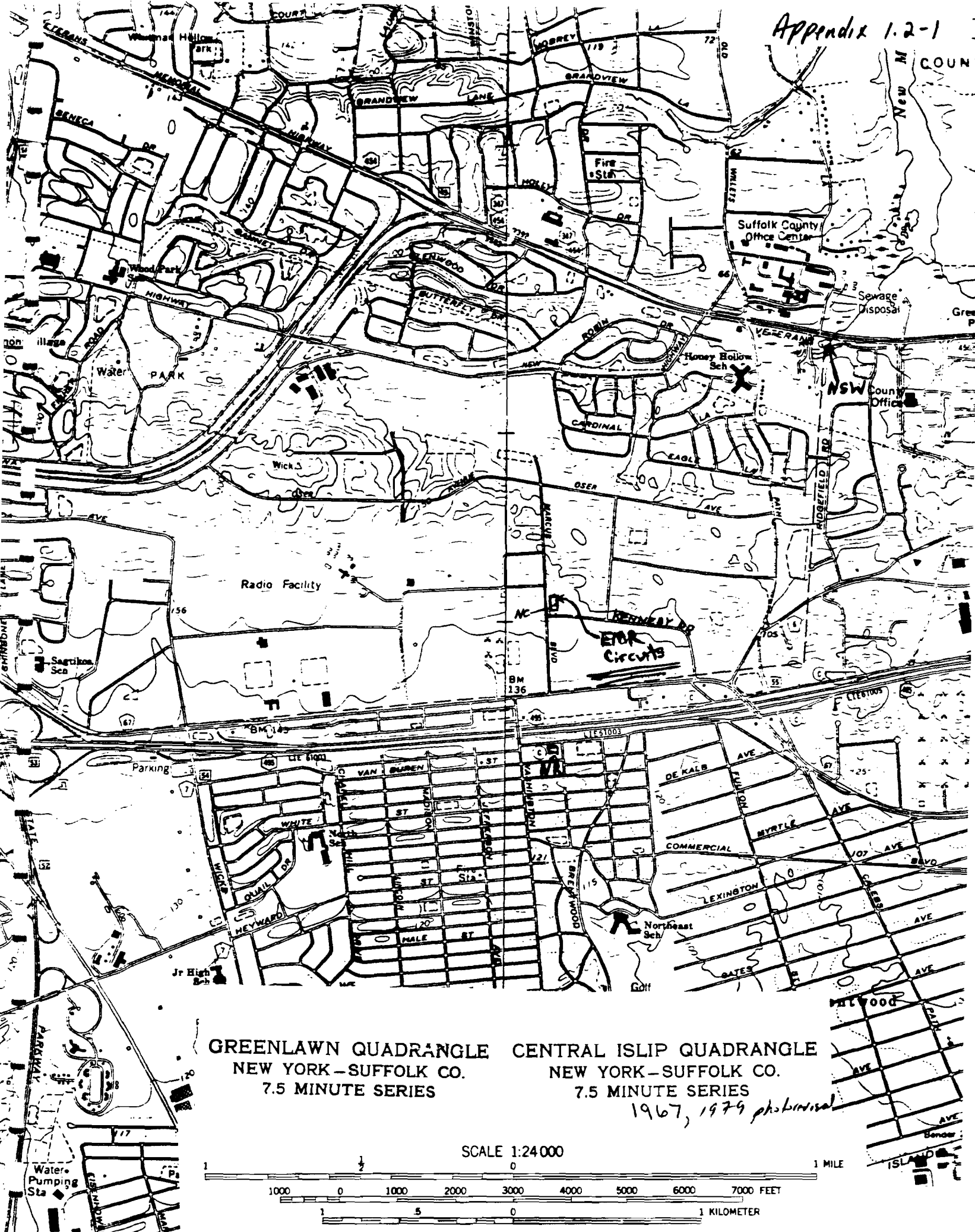
Please advise as soon as possible in this matter.

OK  
Bill

FMR/jhn

*[Handwritten signature]*



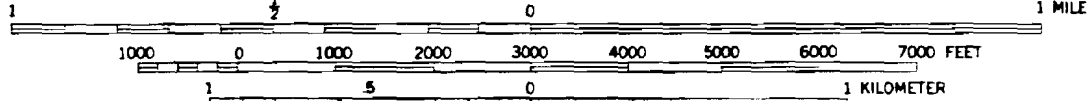


GREENLAWN QUADRANGLE  
 NEW YORK-SUFFOLK CO.  
 7.5 MINUTE SERIES

CENTRAL ISLIP QUADRANGLE  
 NEW YORK-SUFFOLK CO.  
 7.5 MINUTE SERIES

1967, 1979 photomosaic

SCALE 1:24 000



Appendix 1.3-1  
1 of 13

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

# GEOHYDROLOGY

## GEOLOGY AND AQUIFERS

Unconsolidated deposits, ranging in age from Late Cretaceous to Pleistocene, underlie the mid-island area. These deposits contain several major aquifers and constitute the ground-water reservoir. Thin surficial Holocene deposits of soil and some swamp accumulations occur from place to place, but these are of little significance to the ground-water reservoir. The unconsolidated deposits rest unconformably on crystalline bedrock consisting of Precambrian (?) schist and gneiss which is considered to be the bottom of the ground-water reservoir on Long Island.

The unconsolidated deposits, from the bedrock upward, include the Lloyd Sand Member and clay member of the Raritan Formation of Late Cretaceous age, the Matawan Group-Magothy Formation, undifferentiated, also of Late Cretaceous age, and glacial deposits of Pleistocene age. The major aquifers in the area are the deposits of sand and gravel in the Pleistocene and the Matawan-Magothy strata. The test drilling described previously was carried out mostly to the depth of the upper part of the clay member. Therefore, the drilling served to determine the base of the Matawan-Magothy deposits. The drilling also served to obtain information on the configuration of the top of the Matawan-Magothy deposits, which were deeply eroded during Tertiary and, probably, Pleistocene time.

### BEDROCK OF THE PRECAMBRIAN (?) SYSTEM

The Precambrian (?) gneiss and schist which underlies Long Island is hard and dense. Virtually all the water in these rocks is found in joints, faults, and foliation planes. Because these openings are usually tight and poorly connected, the bedrock is practically impermeable, especially by comparison with the overlying unconsolidated formations. No wells are known to tap bedrock in the mid-island area.

The bedrock was eroded to a peneplain prior to the deposition of the Cretaceous strata. In the mid-island area, the bedrock surface dips gently southeast at an average slope of about 65 feet per mile (about two-thirds of a degree), and its altitude ranges from about 800 feet below sea level in the northwestern corner of the area to about 1,600 feet below sea level in the southeastern part (pl. 2).

3413

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.

5 of 13

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 inter-morainal 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 (Luszczynski 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.")

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.



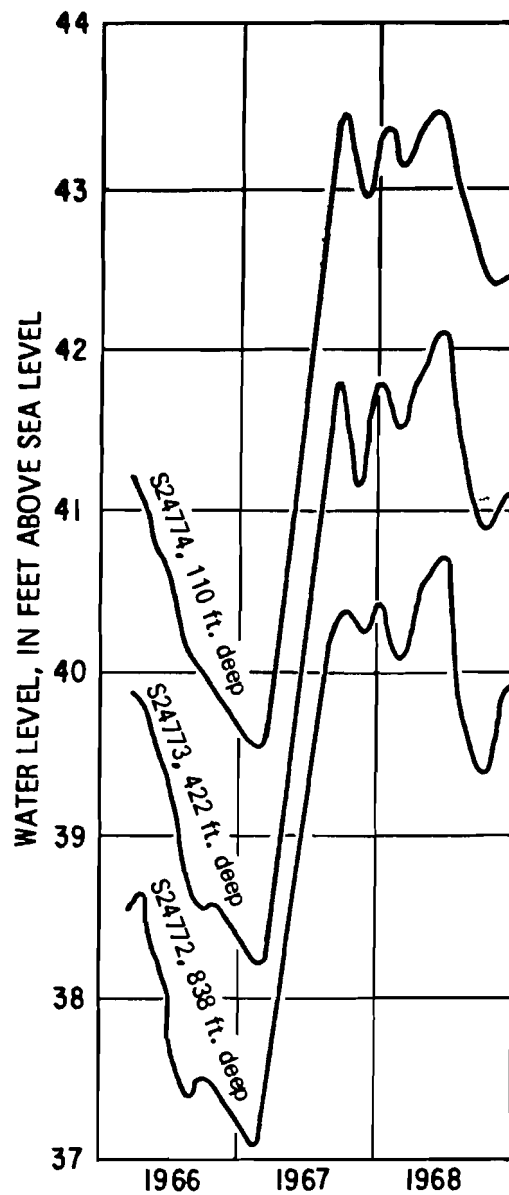


Figure 2.--Fluctuations of water levels in wells screened in the upper glacial aquifer and the Magothy aquifer at Brentwood, N. Y.

#### 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.

955

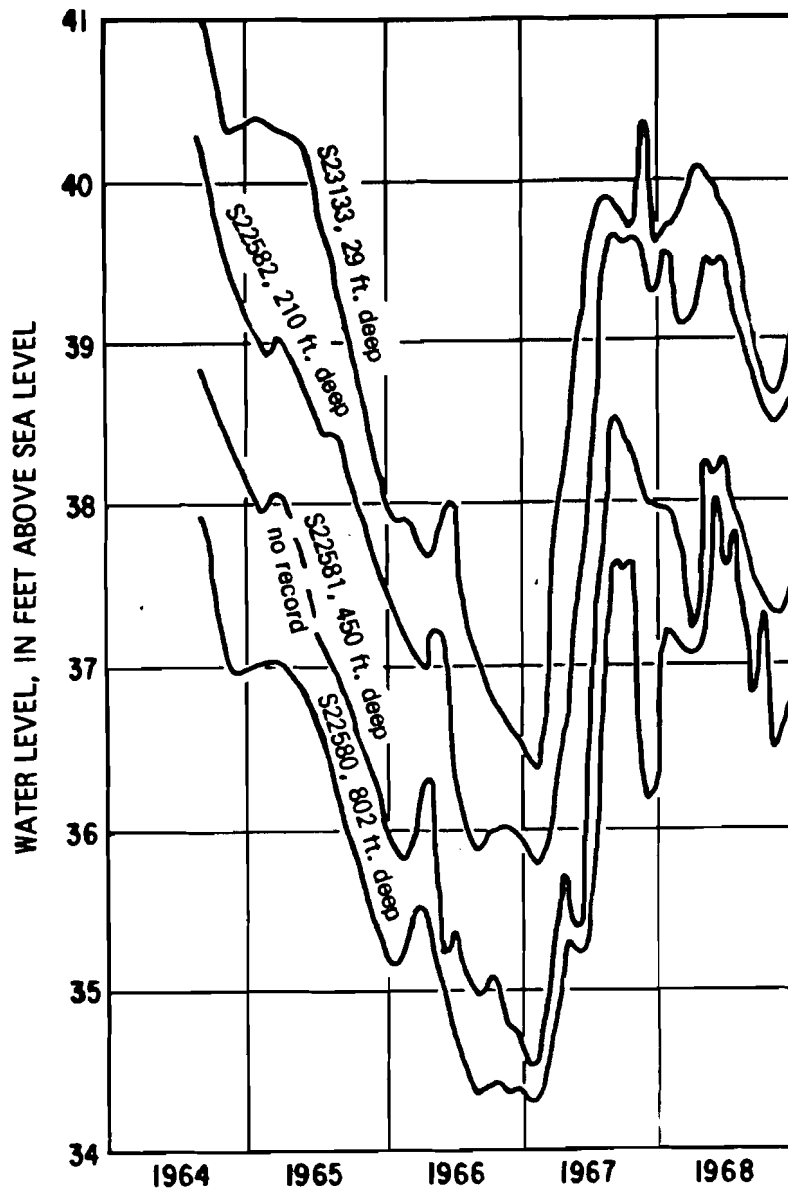
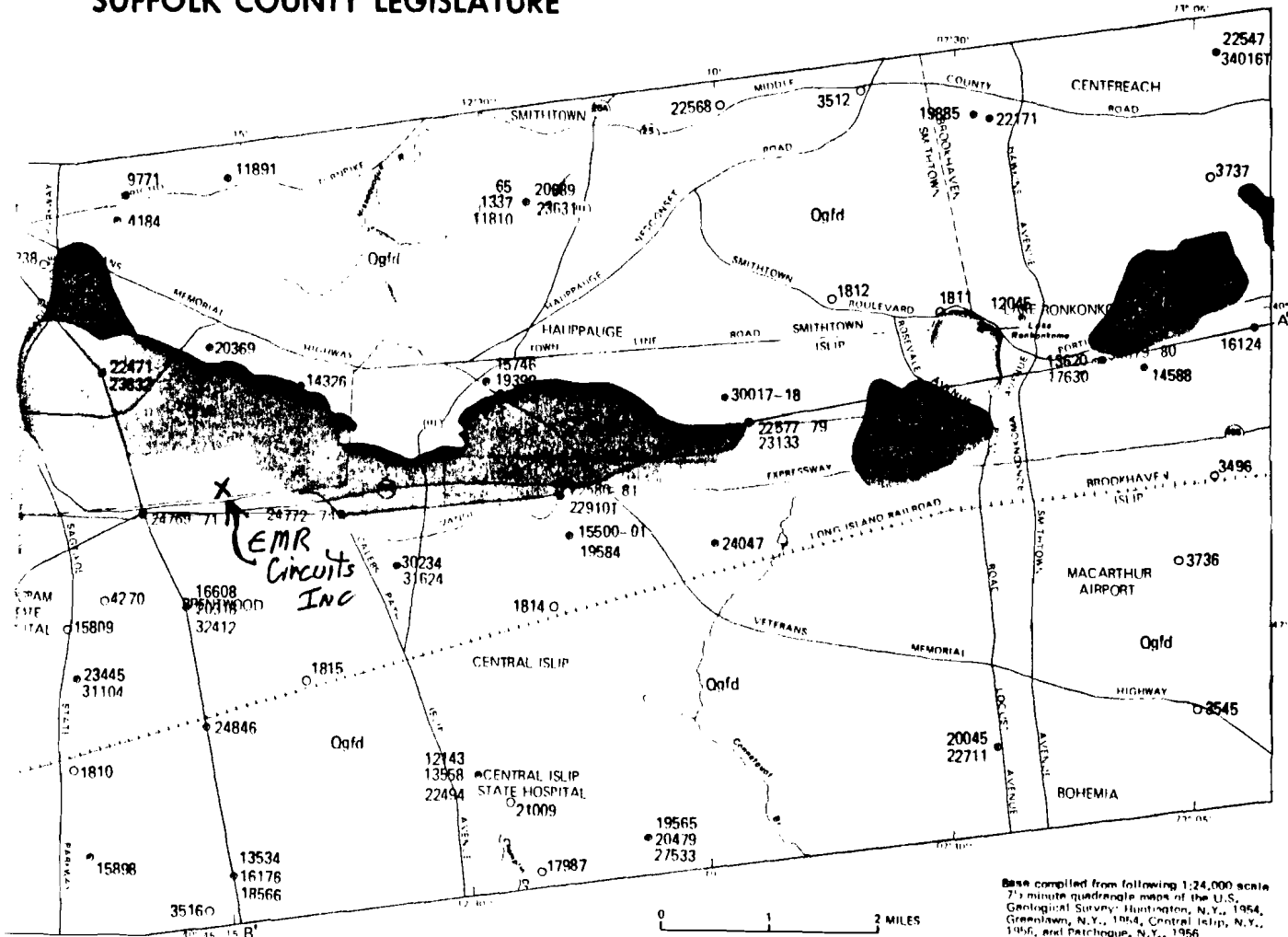


Figure 3.--Fluctuations of water levels in wells screened in the upper glacial aquifer and the Magothy aquifer at Hauppauge, N. Y.





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.

IN COOPERATION WITH THE  
SUFFOLK COUNTY WATER AUTHORITY  
AND  
SUFFOLK COUNTY LEGISLATURE

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 1  
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



EXPLANATION

- PLEISTOCENE
-  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

Base compiled from following 1:24,000 scale  
7.5 minute quadrangle maps of the U.S.  
Geological Survey: Huntington, N.Y., 1954,  
Greenlawn, N.Y., 1954, Central Islip, N.Y.,  
1956, and Patchogue, N.Y., 1956

A — A'  
Geologic section  
(see plate 5)

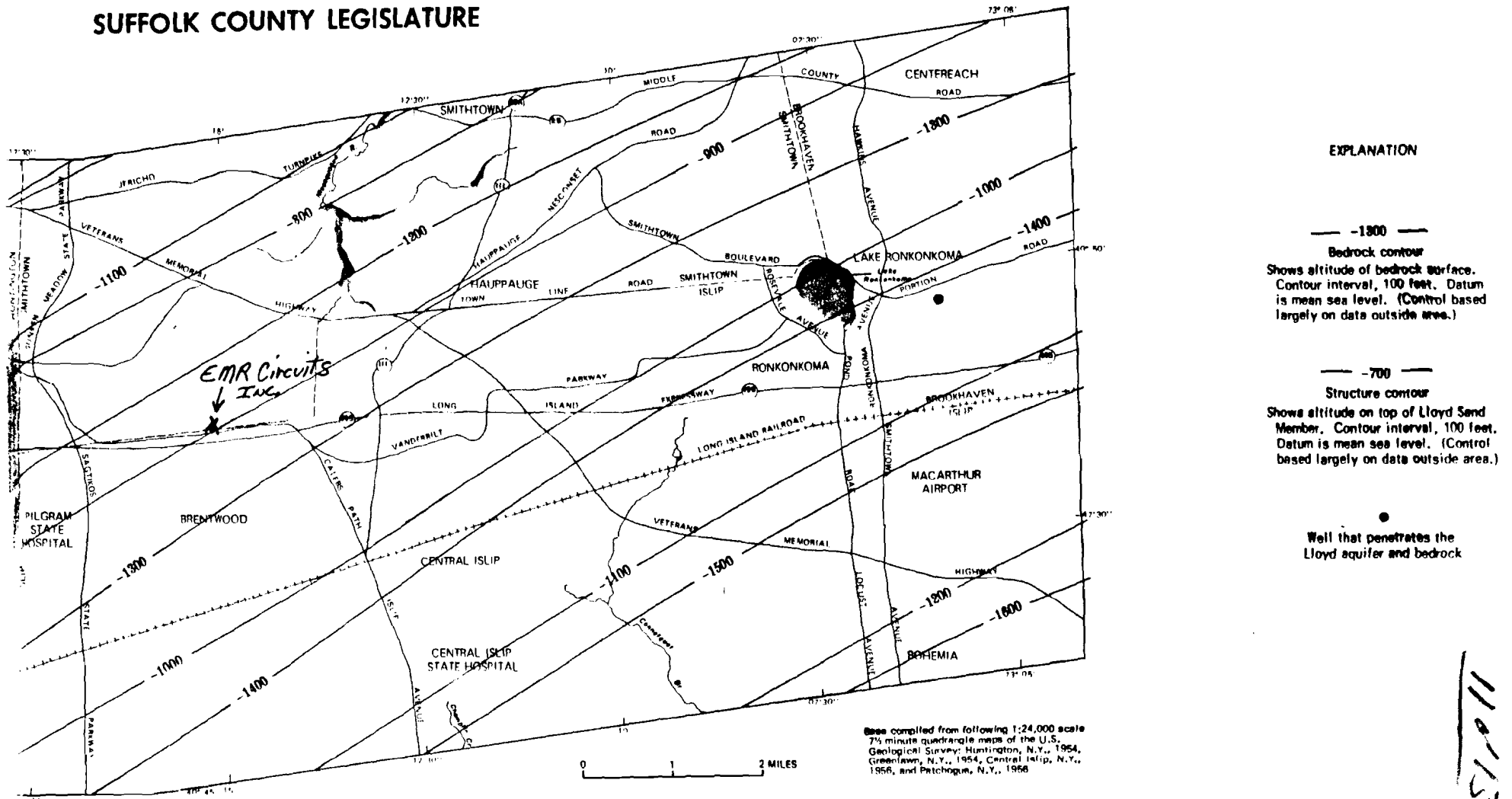
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Geologic contact

10815

SURFICIAL GEOLOGY AND LOCATIONS OF SELECTED WELLS

IN COOPERATION WITH THE  
SUFFOLK COUNTY WATER AUTHORITY  
AND  
SUFFOLK COUNTY LEGISLATURE

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 2  
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



EXPLANATION

— -1800 — -  
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

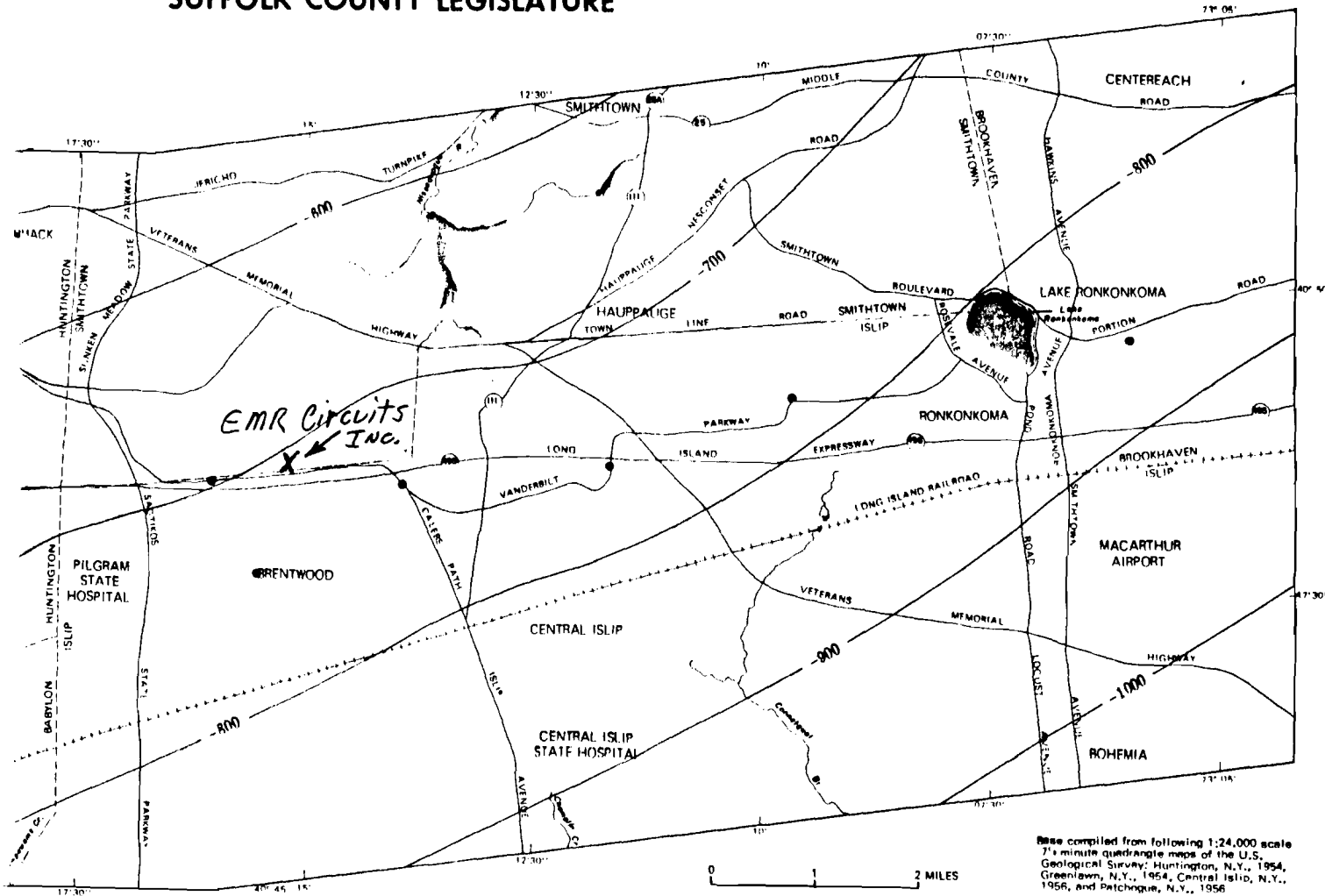
Base compiled from following 1:24,000 scale  
7 1/2 minute quadrangle maps of the U.S.  
Geological Survey: Huntington, N.Y., 1954,  
Greenlaw, N.Y., 1954, Central Islip, N.Y.,  
1956, and Patchogue, N.Y., 1956

11015

ON THE SURFACE OF THE BEDROCK AND ON THE SURFACE OF THE LLOYD SAND MEMBER OF THE RARITAN FORMATION

IN COOPERATION WITH THE  
SUFFOLK COUNTY WATER AUTHORITY  
AND  
SUFFOLK COUNTY LEGISLATURE

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 3  
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



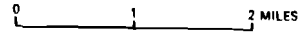
**EXPLANATION**

— 800 —  
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

○  
Deep well that does not penetrate clay member surface

Base compiled from following 1:24,000 scale 7 1/2 minute quadrangle maps of the U.S. Geological Survey: Huntington, N.Y., 1954, Greenlawn, N.Y., 1954, Central Islip, N.Y., 1956, and Patchogue, N.Y., 1956

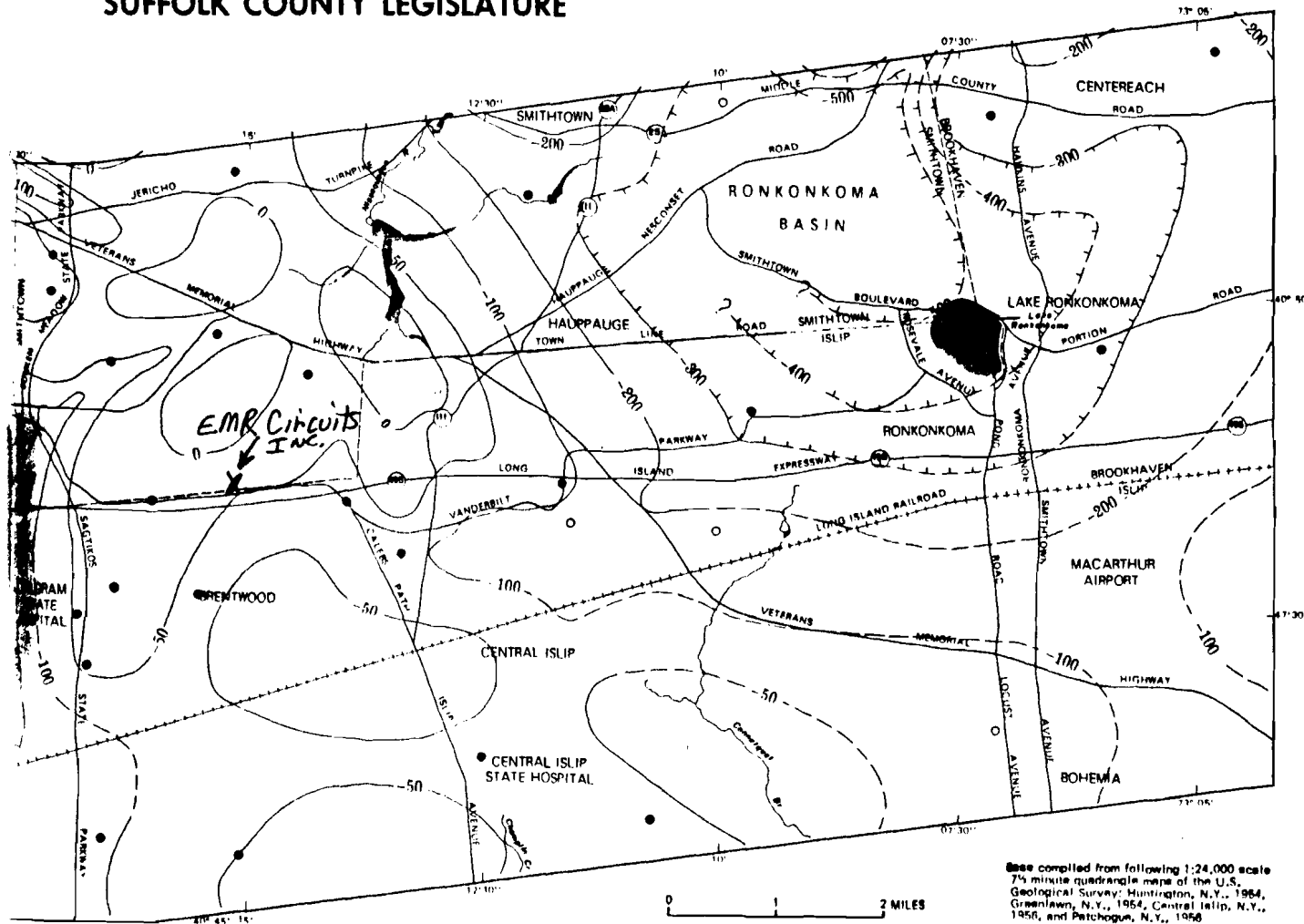


CONTOURS ON THE SURFACE OF THE CLAY MEMBER OF THE RARITAN FORMATION

12/9/53

IN COOPERATION WITH THE  
SUFFOLK COUNTY WATER AUTHORITY  
AND  
SUFFOLK COUNTY LEGISLATURE

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 4  
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



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

Map compiled from following 1:24,000 scale  
7 1/2 minute quadrangle maps of the U.S.  
Geological Survey: Huntington, N.Y., 1964,  
Greenlawn, N.Y., 1964, Central Islip, N.Y.,  
1958, and Patchogue, N.Y., 1958

SURFACE OF THE MATAWAN GROUP-MAGOTHY FORMATION, UNDIFFERENTIATED

13415

County SUFFOLK

ORIGINAL—TO COMMISSION

Appendix 1.32  
Well No. 3-53360  
(on preliminary report)

W.S.A. 6432

State of New York  
Department of Conservation  
Division of Water Resources

LOG  
Ground Surf., El. ....ft. above s

COMPLETION REPORT—LONG ISLAND WELL

^  
.....ft.  
v  
Top of Well

Owner SUFFOLK COUNTY WATER AUTHORITY  
Address POND ROAD, OAKDALE  
Location of well N/S of WALTER COURT, 90' W/O SHIRLEY CT.  
Depth of well below surface 703' Common  
Depth to ground water from surface 86-10" (11/24/75) 80'

SEE  
ATTACHED

CASINGS:

Diameter 20" in. .... in. .... in. .... in.  
Length 547' ft. 10" ft. .... ft. .... ft.  
Sealing 50' CONCRETE  
Casings removed NONE

SCREENS: Make COOK 316 SS Openings #50 SLOT  
Diameter 10" in. 1.0 in. .... in. .... in.  
Length 90' ft. .... ft. .... ft. .... ft.  
Depth to top from top of casing 50' @ 548', 40' @ 627' ft.

PUMPING TEST: Date 2/27/75 Test or permanent pump? TEST  
Duration of Test 8 days ..... hours  
Maximum Discharge 2461 gallons per minute  
Static level prior to test 80 ft. .... in. below top of casing  
Level during Max. Pumping 48 ft. .... in. below top of casing  
Maximum Drawdown 32' ft.  
Approx. time of return to normal level after cessation  
of pumping ..... hours ..... minutes

D. E. C. REGION 1  
ENVIRONMENTAL ANALYSIS UNIT

MAR 24 1975

RECEIVED

PUMP INSTALLED:

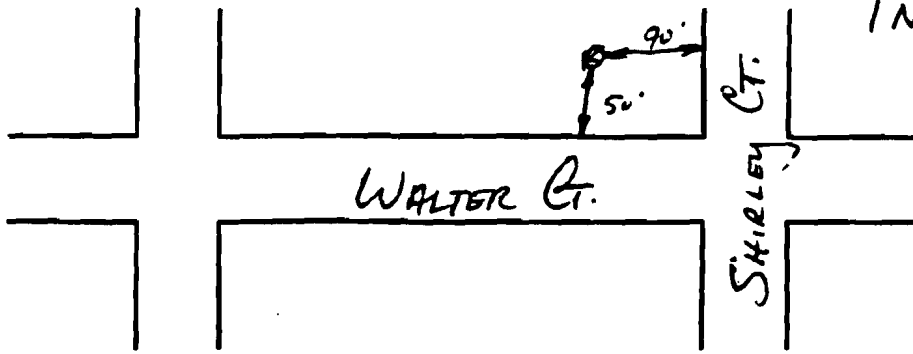
Type DWT Make By LOYNE OTHERS Model No. TLC  
Motive power E.P.C. Make U.S. H.P. 150  
Capacity 1400 g.p.m. against } ..... ft. of discharge head  
No. bowls or stages 6 } 336 TDH ft. of total head

Pump data  
submitted 3/1/75

DROP LINE: Diameter 10" in. Suction LINE: Diameter 10" in.  
Length 159' 9" ft. Length 9'-9" ft.  
Method of Drilling (Rotary, cable tool, etc.) REVERSE ROTARY  
Use of Water PUBLIC SUPPLY  
Work started 10/24/74 11/19/75 Completed 11/25/75 2/27/75  
Date 8/9/76 3/12/75 Driller STRATA WELL CORP.  
License No. 1000 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.  
See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point





# S. I. R. A. T. I. W. E. L. L. C. O. R. P.

3 of 26

## WELL CORP.

### WELL LOG

2 Beech St.  
ISLIP, N. Y. 11751  
Phone 516 581-7100

NAME S. C. WAH - WALTER COURT  
 LOCATION 90' W of SHILOH CT, COMMACK W.R.C. WELL NO. S-53360  
 REFERENCE PT. GRADE S. W. L. 80'  
 DATE STARTED 12/24/74 COMPLETED 2/27/75 DRILLER BANKS, BUTLER, TOWN

SAMPLE		Lgth	Blows	Formation	Thick-ness	Depth	Remarks
Dr F	Actual No. Depth						
				CSE BR SD & GRAVEL w/ LARGE STONES & Boulders	149	149	V. HARD
				FINE/MED BR SAND w/ TRACES OF BROWN CLAY	8	157	
				MULTI-COLORED CLAY (SANDY) w/ IRON OXIDE	30	187	
				FINE TO MED GREY SAND	9	196	Good
				SOLID BLACK CLAY	19	215	
				FINE GREY SAND w/ STREAKS CLAY	19	234	
				MULTI-COLORED CLAY w/ LAYERS OF FINE GR SAND	5	239	
				FINE GREY SAND	3	242	
				SOLID GREY CLAY	9	251	
				FINE GREY SAND w/ LAYERS OF BROWN CLAY	2	253	
				WHITE & BROWN CLAY	13	266	
				FINE GREY SAND w/ STRCS CLAY & IRON OXIDE	8	274	
				MULTI-COLORED CLAY w/ SAND STRIPS	11	285	
				BROWN SAND w/ CLAY STRIPS	30	315	
				WHITE CLAY w/ LAYERS GREY SAND	15	330	
				GREY SAND w/ STRIPS WHITE CLAY	14	344	
				SOLID BLACK CLAY	4	348	
				MULTI-COLORED CLAY SOME SAND	14	362	
				FINE GREY SAND w/ STREAKS OF CLAY	32	394	
				SOLID BROWN CLAY	3	397	
				FINE GREY SAND w/ STRCS OF CLAY	53	450	
				FINE/MEDIUM GREY SAND	25	475	V. Good
				SANDY WHITE CLAY & IRON OXIDE	4	479	
				MEDIUM GREY SAND	31	510	
				MED TO CSE GREYSAND & SM GRAVEL, STRCS WHITE CLAY	5	515	
				FINE TO MEDIUM GREY SAND	10	525	Good
				CSE BR. SAND & GRAVEL, STRCS MULTI-COL SANDY CLAY	6	531	
				SOLID GREY CLAY	6	537	

CONTINUED

4 of 26  
**WELL CORE**

2 Beech St.  
ISLIP, N. Y. 11751  
Phone 516 581-7100

**WELL LOG**

JOB NAME SEA - WATER COLLECT  
 LOCATION 90' W. - SHIRLEY CT., LINDENHURST W.R.C. WELL NO. S-53360  
 REFERENCE PT. GRADE S. W. L. 80'  
 STARTED 10/24/74 COMPLETED 2/27/75 DRILLER ENTON, B...

SAMPLE		Lgth	Blows	Formation	Thick-ness	Depth	Remarks
No.	Actual Depth						
				BROWN SOFT CLAY	7	544	
				MULTICOLORED SANDY CLAY	16	560	↑ 548
				COURSE GREY SAND, SOME CLAY	5	565	Screen
				COURSE GREY SAND	16	581	
				FINE GRAVEL	8	589	↓ 596
				COURSE GREY SAND	30	619	
				COURSE GR SAND, LAYERS OF WHITE CLAY	40	659	↑ 627
				STKS WHITE CLAY INTO FINE GREY SAND	6	665	Screen
				COURSE GREY SAND, STKS OF WHITE CLAY	6	671	↓ 667
				SOLID GREY CLAY	8	679	
				SANDY CLAY & GRAVEL			
HOLE TERMINATED AT 703'							

5026

County Suffolk

ORIGINAL-TO COMMISSION

Well No. S-2236<sup>2</sup>  
(see preliminary report)

WSA-4497

State of New York  
Department of Conservation  
Division of Water Resources

LOG  
Ground Surf., El. ....ft. above sea

COMPLETION REPORT—LONG ISLAND WELL

^  
.....ft.  
v  
Top of Well

Owner Suffolk County Water Authority, Layne Well #18 (their #1)

Address Sunrise Highway at Pond Road, Oakdale, L. I., N. Y.

Location of well Schuyler Dr., Well Field, Northport Plant, Ozone

Dept of well below surface 314' 6 1/2" feet

Depth to ground water from surface 109 feet

CASINGS:

Diameter 16 in. 12 in. in. in.

Length 196 ft. 43 ft. ft. ft.

Sealing \_\_\_\_\_

Casings removed \_\_\_\_\_

SCREENS: Make Cook Opening 10" I. D.  
Wire Wrapped

Diameter 12 in. in. in. in.

Length 68 ft. ft. ft. ft.

Depth to top from top of casing 243' 3" ft.

PUMPING TEST: Date 5/25/64 Test or permanent pump? Test

Duration of Test \_\_\_\_\_ days 8 hours

Maximum Discharge 151.5 gallons per minute

Static level prior to test 109 ft. in. below top of casing

Level during Max. Pumping 155 ft. in. below top of casing

Maximum Drawdown 46 ft.

Approx. time of return to normal level after cessation  
of pumping \_\_\_\_\_ hours 30 minutes

FEB 6 1965  
COMMISSION  
RECEIVED

BLUEPRINT ATTACHED

PUMP INSTALLED: NONE

Type EWT Make Essex Fire Engine Model No. \_\_\_\_\_

Motive power Elec Make W H.P. 100

Capacity 920 g.p.m. against \_\_\_\_\_ ft. of discharge head

No. bowls or stages 6 } 373 ft. of total head

DROP LINE:

Diameter 10 in. in. in.

Length 149.5 ft. 10 ft.

SUCTION LINE:

Use of water Public Supply

Work started 4/20/64 Completed 5/25/64

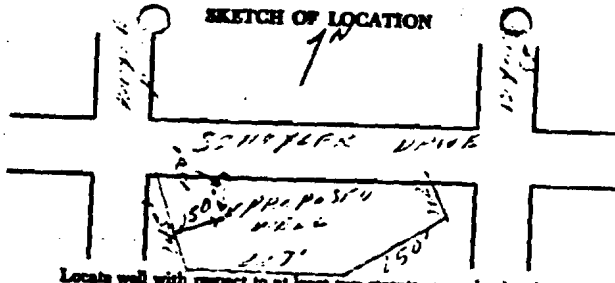
Date 2/2/65 Driller Layne-New York Co., Inc.

License No. 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casing, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

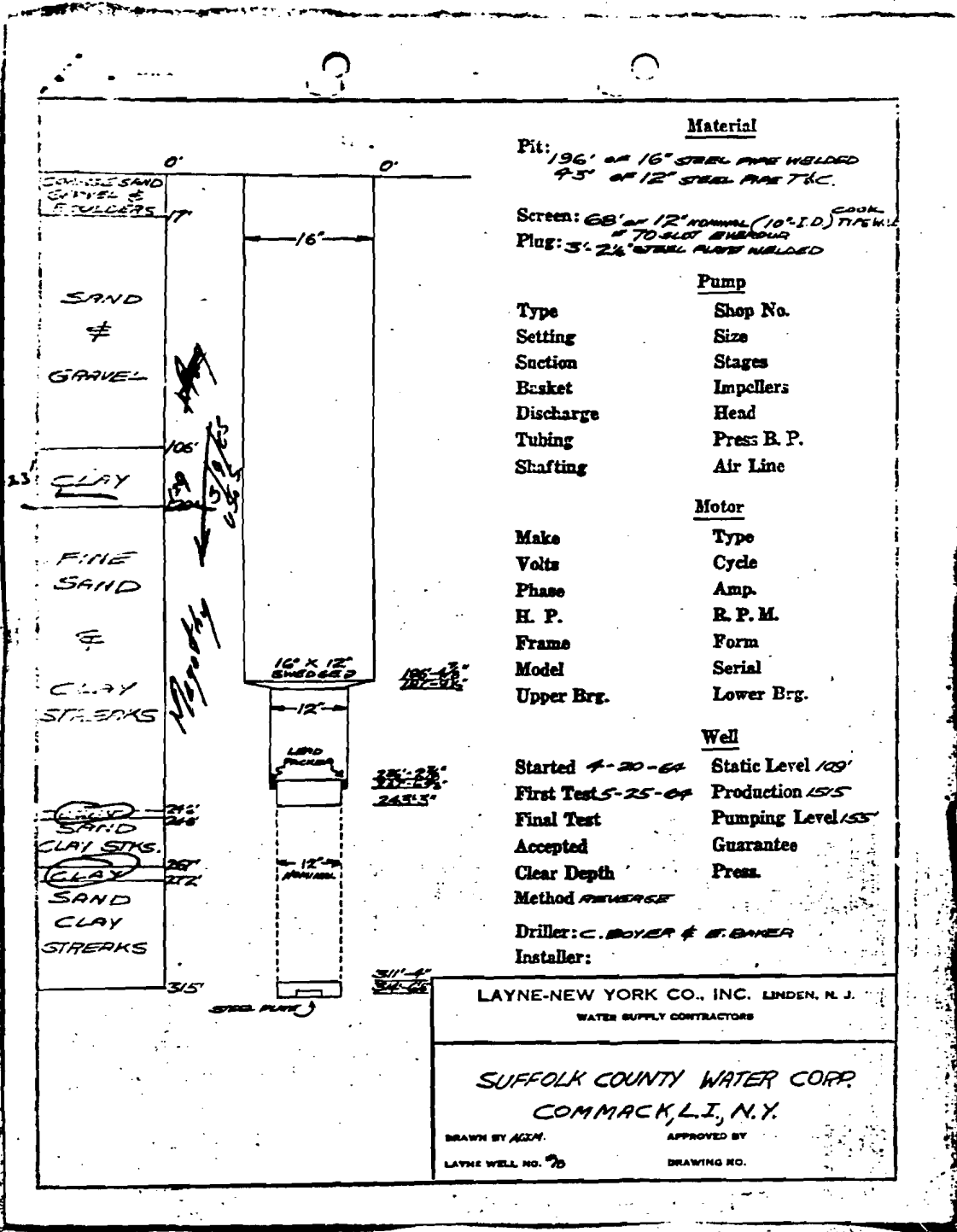
See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

6 of 26



Locate wall with respect to at least two streets or roads, showing distance from corner and front of lot.  
Show North Point

Schofield Dr, # 22362



**Material**  
 Pit: 196' of 16" STEEL PIPE WELDED  
 95' OF 12" STEEL PIPE T&C.  
 Screen: 68' of 12" NOMINAL (10" I.D.) PIPE W/ 70 SLOT SCREEN  
 Plug: 3' 2 1/2" STEEL PLUG WELDED

**Pump**

Type	Shop No.
Setting	Size
Suction	Stages
Basket	Impellers
Discharge	Head
Tubing	Press R. P.
Shafting	Air Line

**Motor**

Make	Type
Volts	Cycle
Phase	Amp.
H. P.	R. P. M.
Frame	Form
Model	Serial
Upper Brg.	Lower Brg.

**Well**

Started 4-20-64	Static Level 109'
First Test 5-25-64	Production 1515
Final Test	Pumping Level 155'
Accepted	Guarantee
Clear Depth	Press.
Method	

Driller: C. BOYER & S. BAKER  
 Installer:

LAYNE-NEW YORK CO., INC. LINDEN, N. J.  
 WATER SUPPLY CONTRACTORS

SUFFOLK COUNTY WATER CORP.  
 COMMACK, L.I., N.Y.

DRAWN BY ALZN. APPROVED BY  
 LAYNE WELL NO. 75 DRAWING NO.

ORIGINAL—TO COMMISSION

County Suffolk

State of New York  
Department of Conservation  
Division of Water Resources

80676  
Well No. 5-58708  
(on preliminary reports)  
LOG  
Ground Surf., El. ....ft. above se

COMPLETION REPORT—LONG ISLAND WELL

Owner Suffolk County Water Authority  
Address PLANO ROAD, EIPKOPAK  
Location of well ANTHONY DRIVE, SMITHTOWN  
Depth of well below surface 423' feet  
Depth to ground water from surface 76'-0" (8/5/77) 81 1/2' feet

^  
.....ft.  
v  
Top of Well  
SEE ATTACHED

CASINGS:

Diameter 20" in. .... in. .... in. .... in.  
Length 315' ft. .... ft. .... ft. .... ft.  
Sealing 50' CEMENT GROUT  
Casings removed NONE

SCREENS:

Make COOK 3/4 SS Openings #50 SLOT  
Diameter 10" in. I.D. in. .... in. .... in.  
Length 60' ft. .... ft. .... ft. .... ft.  
Depth to top from top of casing 338-9" ft.  
70" BUNA SECTION 370-400"

PUMPING TEST:

Date 9/29/76 Test or permanent pump? TEST  
Duration of Test ..... days 8 hours  
Maximum Discharge 1302 gallons per minute  
Static level prior to test 81' ft. 4 1/8 in. below top of casing  
Level during Max. Pumping 109' ft. .... in. below top of casing  
Maximum Drawdown 26' ft.  
Approx. time of return to normal level after cessation  
of pumping ..... hours ..... minutes

PUMP INSTALLED:

Type DWT Make By LAYDE OTHERS Model No. TLC  
Motive power Elec. Make U.S. H.P. 125  
Capacity 1300 g.p.m. against } ft. of discharge head  
No. bowls or stages 6 } 285' TDH ft. of total head

DROP LINE:

Diameter 10 in. .... in. .... in.  
Length 130 ft. .... ft. .... ft.

SUCTION LINE:

Diameter 10 in. .... in. .... in.  
Length 9'-11" ft. .... ft. .... ft.

Method of Drilling (Rotary, cable tool, etc.) REVERSE ROTARY

Use of Water Public Supply

Work started 6/22/76 Completed 9/29/76 8/5/77

Date 10/22/76 8/25/77 Driller LAYDE NEW YORK G. INC. STRAIN WELL CORP

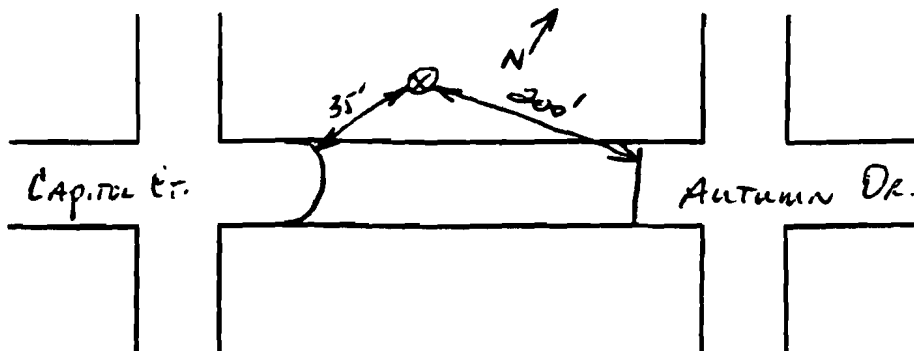
License No. 1000 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

SKETCH OF LOCATION

9 of 26



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

10 of 26

## WELL CORP.

2 Beech St.  
ISLIP, N. Y. 11751  
Phone 516 581-7100

## WELL LOG

JOB NAME SCWA - AUTUMN DRIVE #2  
 LOCATION NORTH END OF CAPITAL COURT, HAUGPAUGE W.R.C. WELL NO. 5-58708  
 REFERENCE PT. GRADE S. W. L. 81'-6"  
 DATE STARTED 6/22/76 COMPLETED 9/29/76 DRILLER BANKER, BUTLER

SAMPLE		Lgth	Blows	Formation	(Feet) Thick- ness	(Feet) Depth	Remarks
No.	Actual Depth						
				TOP SOIL & LOAM	2	2	
				FINE-MED CASE BROWN SAND & GRAVEL	33	35	
				CASE BR. SAND & GRAVEL W/ LARGE STONES	75	110	
				CASE BR SAND, GRAVEL, STONES, RED CLAY	3	113	
				CASE GR & RED SAND & GRAVEL, STRS CLAY	12	125	
				MED-CASE RED & BROWN SAND	10	135	
				SOLID LIGHT GREY CLAY	3	138	
				MED. GREY SAND, IRON OXIDE, STRS OF CLAY	9	147	
				MED TO FI. GREY SAND, STRS MULTI-COLORED CLAY	4	151	
				MULTI-COL SOFT CLAY, STRS FINE SAND, IRON OXIDE	1	152	
				FI TO MED REDDISH SAND W/ MULTI-COL. CLAY STRS	5	157	
				CASE GREY SAND W/ GREY CLAY	4	161	
				SOLID GREY CLAY	4	165	
				SOLID BLACK CLAY	3	168	
				MULTI-COLORED SOLID CLAY	6	174	
				CASE GREY SAND W/ GREY CLAY	5	179	
				MED-CASE GREY SAND, STRS OF CLAY, IRON OXIDE	9	188	
				MULTI-COLORED SANDY CLAY	2	190	
				SOLID DARK CLAY	19	209	HARD
				SANDY MULTI-COLORED CLAY	7	216	
				SOLID DARK CLAY	8	224	FAIR
				LENS OF FINE GREY SAND & SOLID GREY CLAY	2	226	
				FINE GREY SAND, STRS OF GREY CLAY	11	237	
				MULTI-COLORED CLAY W/ STRS OF FI-MED GR SAND	22	259	
				FI. GREY SAND, STRS OF MULTI-COLORED CLAY	16	275	
				FI/MED BROWN SAND/STRS MULTI-COLORED CLAY	20	295	
				FINE GREY SAND, MULTI-COLORED CLAY	38	333	228
				FINE GREY SAND, STRS OF CLAY, HARD PAN	17	350	228

CONTINUED

228





120626

County Suffolk

ORIGINAL TO COMMISSION  
WSA-5492

State of New York  
Department of Conservation  
Division of Water Resources

Well No. S-32412  
(see preliminary report)

LOG  
Ground Surf. El. \_\_\_\_\_ ft. above sea level

COMPLETION REPORT—LONG ISLAND WELL

^  
\_\_\_\_\_  
ft.  
v  
Top of Well

See copy  
of well log  
attached.

Owner Brentwood Water District - Town of Islip  
Address Town Hall, Islip, New York  
Location of well WELL #2-3 - Morris/Carroll Strs. Brentwood

Dept of well below surface 755'-4"  
Depth to ground water from surface 71

STATE OF NEW YORK  
WATER RESOURCES  
JUN 17 1968  
RECEIVED

CASINGS:  
Diameter 20 in. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_ in.  
Length 675 ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft.  
Sealing \_\_\_\_\_  
Casings removed \_\_\_\_\_

SCREENS: Make Johnson/everdur Openings #60  
Diameter 12 in. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_ in.  
Length 70 ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft.  
Depth to top from top of casing \_\_\_\_\_ ft.

PUMPING TEST: Date 5/27/68 Test or permanent pump? Test  
Duration of Test \_\_\_\_\_ days \_\_\_\_\_ hours  
Maximum Discharge 1404 gallons per minute  
Static level prior to test 71 ft. \_\_\_\_\_ in. below top of casing  
Level during Max. Pumping 109 ft. \_\_\_\_\_ in. below top of casing  
Maximum Drawdown 38 ft.  
Approx. time of return to normal level after cessation  
of pumping \_\_\_\_\_ hours \_\_\_\_\_ minutes

PUMP INSTALLED: By Others  
Type DW.T Make Reciproc Model No. 146C  
Motive power ELEC Make V.S. H.P. 150  
Capacity 1400 g.p.m. against \_\_\_\_\_ ft. of discharge head  
No. bowls or stages 4 \_\_\_\_\_ ft. of total head

Pump data  
Subm. 2/2/69  
2/17/69  
2/23/69

DRIF LOW: \_\_\_\_\_ SUCTION LOW: \_\_\_\_\_  
Diameter \_\_\_\_\_ in. \_\_\_\_\_ in.  
Length \_\_\_\_\_ ft. \_\_\_\_\_ ft.

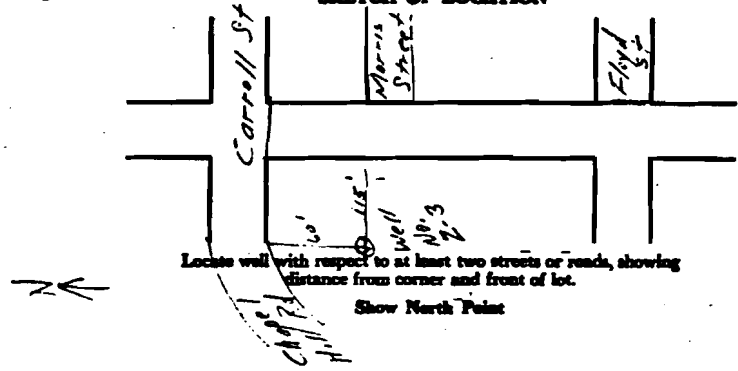
Use of water Municipal  
Project \_\_\_\_\_  
Work started 2/6/68 \_\_\_\_\_ Completed 5/29/68 \_\_\_\_\_  
Date 14 June 1968 \_\_\_\_\_ Driller MATHIES WELL & PUMP CO., INC.

Water Temperature - 53° License No. 153-5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.  
See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

130626

SKETCH OF LOCATION



USGS - 6/20/68  
Hans N. Jensen

June 20, 1968

Well S-32412  
 Screened in Magothy.  
 T. D. - 755 ft below lsd.  
 Elev. - 110 ± feet above msl.  
 Yield - 1404 gpm dd: 38 ft.  
 Sp. Cap. - 37 gpm/ft dd.

Correlation - (from GW-18, cores & drillers log of S-32412T, B & Gamma-logs S-24772). S-24772  
 O. P. 0 to 197 ft below lsd.  
 Magothy 197 to 858 ft below lsd.  
 Raritan 858-901 ft below lsd.

Correlation-Fair. S-32412T total depth 901 feet, but no E-log available. Lloyd should be about 1100 ft ± below lsd.

FEDERAL BUREAU OF INVESTIGATION  
 U.S. DEPARTMENT OF JUSTICE  
 SUBJECT TO INSPECTION

14726

**SUPPLY WELL LOG** *W.C.* MATHIES WELL & PUMP CO., INC. W.C. #3-3412  
LINDENHURST, N. Y. 11757 Page 1 of 2

Job Well #3 - Brentwood Water District Address Morris Street, Brentwood, N.Y.  
Date Started April 6, 1968 Completed May 4, 1968 Driller D. Booth  
D. Cicogna

Diameter 20" in. Measured from Grade  Yes  No  
Depth 755' Ft. in. Above Ft. in. Below Ft. in.  
Static Level 71' Ft. 0 in. Elevation Ft.

	STRATUM		TEMPERATURE	
	THICKNESS	DEPTH	SAND	WATER
Loam	3'	3'		
Coarse Brown Sand, Gravel & Boulders	15'	18'		
Med. to Coarse Br. Sand, Grits and Gravel	139'	157'		
Brown Clay	2'	159'		
Coarse Brown Sand (Streaks of Gray Clay)	1'	160'		
Coarse Brown Sand, Grits and Gravel	5'	165'		
Med. to Coarse Brown Sand and Gravel	14'	179'		
Gray Clay (Streaks of Fine Gray Sand)	8'	187'		
Gray Clay mixed with Coarse Gravel	10'	197'		
Gray Clay and Hard Pan	20'	217'		
Gray Clay (Streaks of Fine Gray Sand)	2'	219'		
Dark Gray Clay (Solid)	12'	231'		
Multi Colored Clay, Pyrite & Hard Pan	3'	234'		
Fine Brown Sand (Streaks of Multi Colored Clay)	14'	248'		
Multi Colored Clay Strips of Fine Brown Sand	5'	253'		
Fine Brown Sand (Streaks of Multi Colored Clay)	7'	260'		
Fine Brown Sand, Bits of Brown Clay & Hard Pan	11'	271'		
Fine Brown Sand (Streaks of Brown Clay)	13'	284'		
Fine Gray Sand (Streaks of Gray Clay)	69'	353'		
Fine Brown Sand (Streaks of Brown Clay)	96'	449'		
Gray Clay (Solid)	4'	453'		
Fine Gray Sand (Streaks of Gray Clay)	12'	465'		
(Solid) Gray Clay	11'	476'		
Gray Clay (Streaks of Fine Gray Sand)	8'	484'		
Gray Clay (Solid) Hard	31'	515'		
Fine Gray Sand (Streaks of Gray Clay)	3'	518'		

*UG*  
*MS?*  
*50*



165-6

County SUFFOLK  
WSA-5373

ORIGINAL-TO COMMISSION

State of New York  
Department of Conservation  
Division of Water Resources

Well No. S-31104  
(see preliminary report)

LOG #154  
Ground Surf., Elev. 110 ft. above sea

COMPLETION REPORT—LONG ISLAND WELL

^ 0 ft  
v  
Top of Well

Owner SUFFOLK COUNTY WATER AUTHORITY  
Address DAKDALE NEW YORK  
Location of well EMTAY BLVD. BRENTWOOD N.Y.  
Dept of well below surface 658 feet  
Depth to ground water from surface 62 feet

SEE  
ATTACHED  
LOG

CASINGS:  
Diameter 16 in. 12 in. 12 in. (BLANK) in.  
Length 256 ft. 355 ft. From 655-658 ft.  
Sealing CLAY BACKFILL  
Casings removed NONE

SCREENS: Make COOK Openings .070  
Diameter 10 I.D. in. in. in. in.  
Length 63 ft. ft. ft. ft.  
Depth to top from top of casing 592' (TOP SLOT) ft.

PUMPING TEST: Date 9/29/67 Test or permanent pump? TEST  
Duration of Test \_\_\_\_\_ days 8 hours  
Maximum Discharge 1500 gallons per minute  
Static level prior to test 62 ft. in. below top of casing  
Level during Max. Pumping 98 ft. in. below top of casing  
Maximum Drawdown 36 ft.  
Approx. time of return to normal level after cessation of pumping \_\_\_\_\_ hours 10 minutes

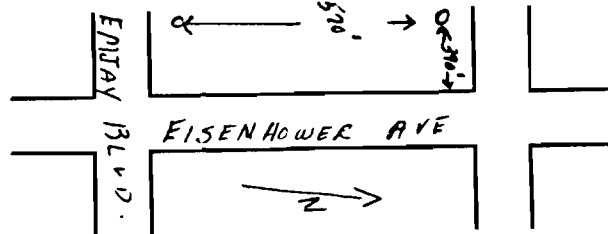
STATE OF NEW YORK WATER RESOURCES COMMISSION RECEIVED  
PUMP INSTALLED: BY OWNER  
Type \_\_\_\_\_ Make \_\_\_\_\_ Model No. \_\_\_\_\_  
Motive power \_\_\_\_\_ Make \_\_\_\_\_ H.P. \_\_\_\_\_  
Capacity \_\_\_\_\_ g.p.m. against \_\_\_\_\_ ft. of discharge head  
No. bowls or stages \_\_\_\_\_ } \_\_\_\_\_ ft. of total head  
PUMP LINE: BY OWNER SUCTION LINE:  
Diameter \_\_\_\_\_ in. \_\_\_\_\_ in.  
Length \_\_\_\_\_ ft. \_\_\_\_\_ ft.

Use of water MUNICIPAL SUPPLY  
Work started July 26-67 Completed Oct 4-1967  
Date Oct 4-67 Driller John W. Cup...  
License No. 10000

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.  
See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

175

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.  
 Show North Point

Well S-31,104  
 Screened in Basal Magothy

TD - 658 ft. below lsd.  
 Elev. + 105 ft ± above msl.  
 Yield - 1500 gpm dd: 36 ft.  
 Sp. Cap. - 41 gpm/ft of dd.

Correlation (from GW-18 Buft and driller's log)

U.P. 0 to 152 ft. below lsd.

Magothy 152 ft. "

Basal Mag. 585 to 637 ft. (bottom of described log.).

(Raritan clay should be at 880± ft below lsd).

(Correlation fairly good, but Basal Magothy seems too thick - would be about 300 ft thick if above correlation is correct.)

*USGS McClymonds 10/12/67*

**FOR ADMINISTRATIVE USE ONLY**  
 Provisional Subject to Revision

18921

# STRATA WELL CORP.

## WELL LOG

BOX "N", DEER PARK, N. Y. 11729  
516 MO 7-3700

LOCATION EMTAY BLVD SCWA WELL # 2  
 W. R. C. WELL NO. S-31104  
 REFERENCE PT. + 110 MSL S. W. L. 62  
 STARTED July 26-67 COMPLETED Oct. 4-1967 DRILLER Hunt

SAMPLE	Actual Depth	Lgth	Blows	Formation	Thick-ness	Depth	Remarks
				SDY CLAY & TOP SOIL	3	3	
				CSE BR SD, GRAVEL & STONES	75	78	↑ UP6
				CSE BR SD & GRAVEL	74	152	
				BR & GR CLAY	3	155	↓ MAG
				CSE GR SD & STREAKS OF WHITE CLAY	5	163	
				BR SWY CLAY	2	165	
				BR CLAYE SD & STREAKS OF BR CLAY	15	180	
				CSE BR SD	8	188	
				FI GR SD	20	208	
				MED BR SD	43	251	
				MULTI COL CLAY & STREAKS OF SD	2	253	
				FI GR SD, STREAKS OF MULTI COL CLAY	53	286	
				MED BR SD, STREAKS OF CLAY & H.P.	15	299	
				BR CLAY	3	302	
				GR SILTY CLAY & STREAKS OF V.F. GR SD	13	315	
				FI GR CLAYE SD	5	320	
				GR CLAY, GR SD & MULTI COL CLAY	8	328	
				FI GR SD	2	330	
				MULTI COL SILTY CLAY	9	339	
				FI BR SD	12	351	
				MULTI COL SILTY CLAY	4	355	
				BR GR CLAY	2-1	359	
				LYES OF GR CLAY, GR SD & PYRITE	3	362	
				FI BR SD	22	404	
				BR SILTY CLAY, STREAKS OF H.P.	2	406	
				GR CLAY, PYRITE & H.P., STREAKS OF GR SD	18	424	
				FI TO MED BR SD	7	431	
				MED BR SD STREAKS OF CLAY	7	438	
				BR CLAY	7	445	



19726

# STRATA WELL CORP.

## WELL LOG

BOX "N", DEER PARK, N. Y. 11729  
516 MO 7-3700

JOB NAME \_\_\_\_\_  
 LOCATION \_\_\_\_\_ W.R.C. WELL NO. \_\_\_\_\_  
 REFERENCE PT. \_\_\_\_\_ S. W. L. \_\_\_\_\_  
 STARTED \_\_\_\_\_ COMPLETED \_\_\_\_\_ DRILLER \_\_\_\_\_

NO. OF SAMPLES	Actual Depth	Logth Blows	Formation	Thickness	Depth	Remarks
			FI GR SD STREAKS OF GR CLAY	33	478	
			GR CLAY + STREAKS OF PYRITE	31	509	
			LIKS LT BR CLAY, FI GR SD + PYRITE	9	518	
			MED GR SD	27	545	
			WHITE CLAY	2	547	
			MED GR SD STREAKS OF CLAY	11	558	
			GR CLAY + PYRITE	7	565	
			COE BR SD + WHITE CLAY	7	572	
			GR CLAY + LT GR SILTY CLAY	4	576	
			FI GR CLAYIE SD	3	579	
			LT GR SILTY CLAY	4	583	
			FI GR CLAYIE SD	2	585	
			MED GR SD, FI GRAVEL + STREAKS OF WHITE SDY CLAY	17	602	592
			COE GR SD + SDY CLAY	1	603	REMARK
			MED BR SD	32	635	
			MED GR SD, SOME STREAKS OF WHITE CLAY + SMALL GRAVEL			655

Considerable clay below 150' bgs <sup>200'</sup>

Cont. #1098 T-#2 (Not Layne)  
LI-20-68  
County Suffolk

ORIGINAL-TO COMMISSION

State of New York  
Department of Conservation  
Division of Water Resources

WSA-5438

Well No. S-31624  
(see preliminary report)

LOG

Ground Surf., El. \_\_\_\_\_ ft. above sea

^ \_\_\_\_\_ ft.  
v \_\_\_\_\_ ft.  
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner Suffolk County Water Authority

Address Sunrise Highway at Pond Rd., Oakdale, N. Y.

Location of well S/side Commercial Blvd., N/side Bedford Ave., Brentwood, NY

Dept of well below surface 440 approx feet

Depth to ground water from surface 75 feet

CASINGS: NOT A LAYNE WELL

Diameter \_\_\_\_\_ in \_\_\_\_\_ in \_\_\_\_\_ in \_\_\_\_\_ in

Length \_\_\_\_\_ ft \_\_\_\_\_ ft \_\_\_\_\_ ft \_\_\_\_\_ ft

Sealing \_\_\_\_\_

Casings removed \_\_\_\_\_

SCREENS: Make \_\_\_\_\_ Openings \_\_\_\_\_

Diameter \_\_\_\_\_ in \_\_\_\_\_ in \_\_\_\_\_ in \_\_\_\_\_ in

Length \_\_\_\_\_ ft \_\_\_\_\_ ft \_\_\_\_\_ ft \_\_\_\_\_ ft

Depth to top from top of casing \_\_\_\_\_ ft

PUMPING TEST: Date 10/24/68 Test or permanent pump? Permanent

Duration of Test \_\_\_\_\_ days \_\_\_\_\_ hours

Maximum Discharge \_\_\_\_\_ gallons per minute

Static level prior to test \_\_\_\_\_ ft \_\_\_\_\_ in. below top of casing

Level during Max. Pumping \_\_\_\_\_ ft \_\_\_\_\_ in. below top of casing

Maximum Drawdown \_\_\_\_\_ ft

Approx. time of return to normal level after cessation of pumping \_\_\_\_\_ hours \_\_\_\_\_ minutes

See Attached Record of Test

PUMP INSTALLED:

Type WCC Make Layne Model No. 59791

Motive power Electric Make G.E. H.P. 100

Capacity 1200 g.p.m. against 257 ft. of discharge head

No. bowls or stages 5 } \_\_\_\_\_ ft. of total head

DROP LINE:

Diameter 10 in. 10 in.

Length 119'8" ft. 10 ft.

SUCTION LINE:

Use of water Public supply

Work started 4/11/68 Completed 6/25/68

Date ~~XXXXXXXX~~ 10/29/68 Driller Layne-New York Co., Inc.

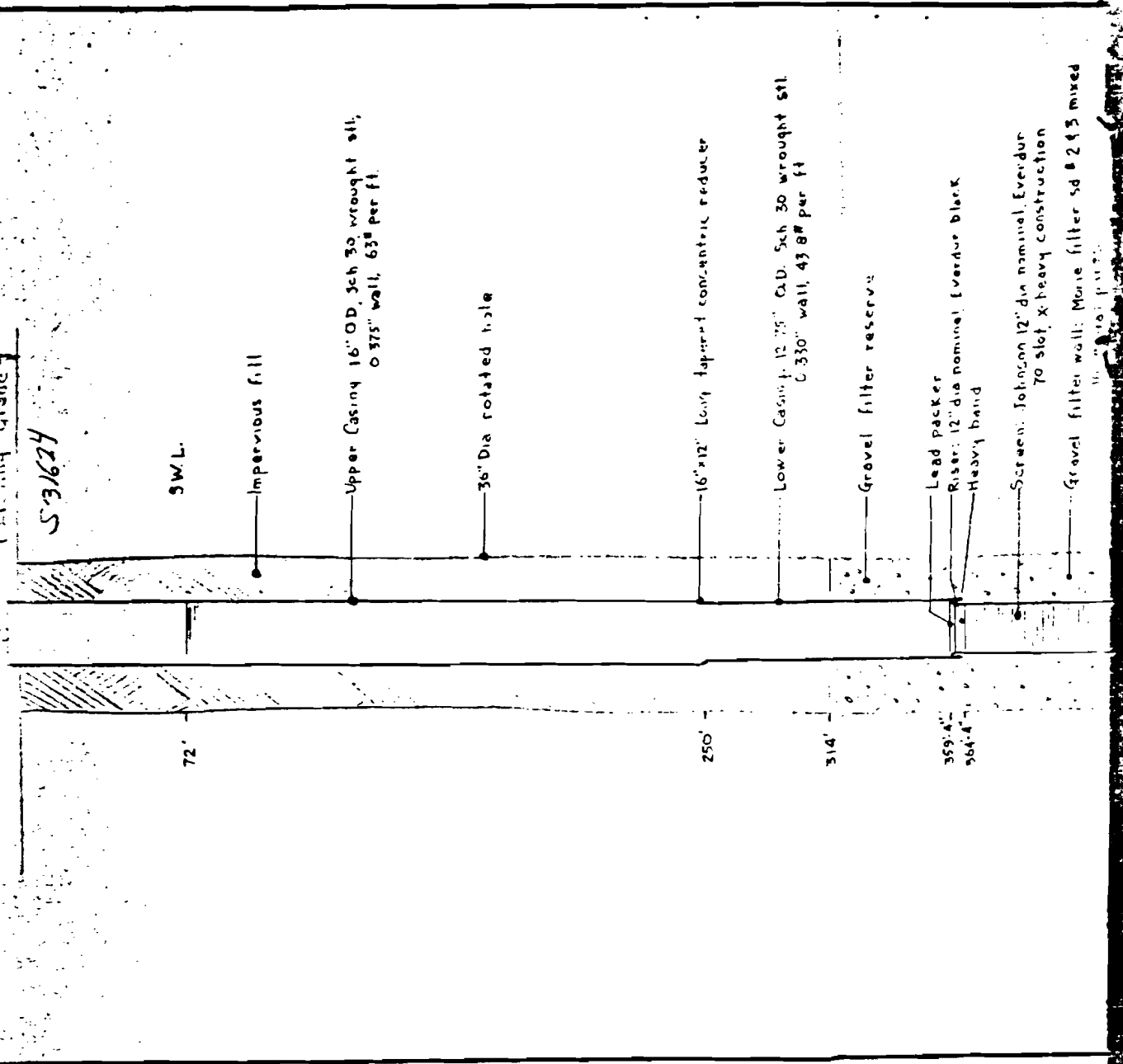
License No. 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job. See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

STATE ( )  
OC 29 1968 ✓

2107

5-31-62  
K2916.S  
Gravel  
Gravel



SW.L.

Impervious fill

Upper Casing 16" OD, Sch 30 wrought stl,  
0.375" wall, 63 lb per ft.

36" Dia related hole

16" x 12" Long tapered concentric reducer

Lower Casing 12.75" O.D. Sch 30 wrought stl,  
0.330" wall, 43.8 lb per ft

Gravel filter reserve

Lead packer

Riser: 12" dia nominal Everdur  
Heavy black

Screen: Johnson 12" dia nominal Everdur  
70 slot x heavy construction

Gravel filter wall: Morse filter sd B 243 mixed  
16" dia hole

36" Dia related hole

72'

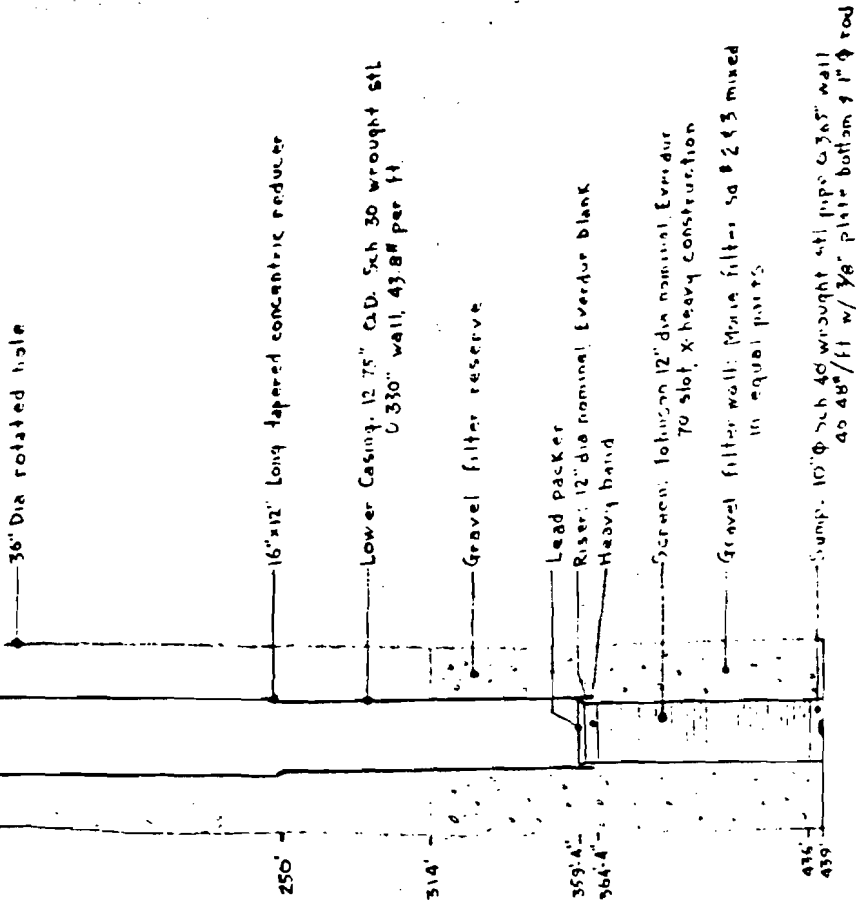
250'

314'

359.4'

364.4'

229/26



NO SCALE

SUFFOLK COUNTY WATER AUTH COMERCIAL BLVD BRENTWOOD	
PROPOSED WELL DESIGN	
SCALE: NONE	DR. A.C. CH. DATE 11-2
<b>C. W. LAUMAN &amp; CO., INC.</b> 50 CHURCH ST. NEW YORK 7, N. Y.	BETHPAGE LONG ISLAND, N. Y.
DWG. 9-6	
FILE NO.	

531624

10'	Med-cls brn sand, qtz, qv.
68'	Med-cls brn sand, qtz, qv.
150'	Sld brn cly
167'	Sld gry cly, qtz embedded
171'	fn brn sand, mica
180'	Med gry sand, bits cly, hrd pan
188'	Sld brn cly
201'	Med gry sand
203'	fn-cls sand
213'	fn-med sand, strks sandy cly, mica
223'	Sld gry cly, strks gry sandy cly
228'	Sld gry cly
233'	fn gry sandy cly, mica
245'	Med gry sand
250'	fn-med white sand
269'	Sld gry cly
281'	Med gry sand, strk gry cly
295'	

359'	Sld cly
371'	Sndy
398'	fn-med
407'	fn-med
411'	multi
426'	fn-whi
433'	Sld gr
443'	Sndy
464'	Med
476'	Multi
483'	gry
488'	Multi
495'	Sld gr
512'	Sld w
516'	Sld cly
521'	Med cly
527'	fn cly
533'	Multi
536'	Sld w
543'	Sld cly
546'	fn gry
552'	Sld dr
558'	gry s
563'	brn s
567'	fn-med
580'	fn-med
596'	cls
602'	Sld
608'	Sld
614'	Sld
625'	Med
476'	Med

25921

250' med white  
 269' Sld gry cly  
 281' med gry snd, STRK gry cly  
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 171' fn brn sand, mica  
 180' med gry snd, bits cly, hrd pan  
 188' Sld brn cly  
 201' med gry snd  
 203' fi-cse snd  
 213' fi-med snd, strks sandy cly, mica  
 223' Sld gry cly, strks gry sandy cly  
 228' Sld gry cly  
 233' fn gry sandy cly, mica  
 245' med gry snd  
 250' fi-med white snd  
 269' Sld gry cly  
 281' med gry snd, STRK gry cly  
 293' multi col snd, strks gry cly  
 317' multi col sandy cly  
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249/25

359		Sld blk cly pyrite
371		Sndy multi col cly pyrite
398		Fn-med cse snd, mica
407		Fn multi col clayey snd
411		Multi col sndy cly
426		Fn white snd
433		Sld gry cly
443		Sndy multi col cly mica
464		Med gry snd, sndy cly
476		Multi col snd sndy cly, mica
483		Gry snd, sndy cly mica
488		Multi col snd - sndy cly
495		Sld gry cly
512		Sld white cly
521		Sld brn cly
526		Med brn snd
527		Fn clayey gry snd
533		Multi col sndy cly
536		Sld wht cly
543		Sld blk cly
546		Fngry sndy cly, mica, sld cly
552		Sld drk cly
558		Gry sndy cly mica
563		Brn sndy cly, strks snd mica
567		Fn-med snd, sndy cly
580		Fn med snd strks sld gry cly (11)
596		Cse sdv cly - strks cse snd
602		Sld gry cly
608		Sld gry cly - strks cse snd
616		Sld gry cly - strks sld gry cly
619		Fngry snd, strks sld gry cly
464		Med gry snd, sndy cly

72.6.53

464		Med gry snd, sndy cly
476		Multi col snd, sndy cly, mica
483		Gry snd, sndy cly mica
488		Multi col snd - sndy cly
495		Sld gry cly
512		Sld white cly
521		Sld brn cly
527		Med brn snd
533		Fn clayey gry snd
536		Multi col sndy cly
543		Sld white cly
546		Sld blk cly
552		Fn gry sndy cly, mica, sld cly
558		Sld drk cly
563		Gry sndy cly mica
567		Brn sndy cly, strks snd mica
580		Fn med snd, sndy cly
596		Fn med snd strks sld gry cly
602		Coe sdy cly, strks med snd
608		Sld gry cly
616		Sld gry cly - strks coe snd
625		Sld gry cly - strks sld gry cly
626		Fn gry snd, strks sld gry cly
627		Fn gry snd - strks sld gry cly
639		Fn med snd - sndy cly mica
665		Fn med snd
668		Sld gry cly - strks med coe gry snd
670		Coe gry snd - strk sld gry cly
671		
677		Fn to coe snd, bits sld gry cly

SUFFOLK COUNTY WATER AUTH.  
COMERCIAL BLVD. BRENTWOOD

LOG OF TEST WELL

SCALE: 1" = 30'-0" DR. J. B. CH. DATE: 10-17-67

DWG. NO.

269726



# Hydrogeology of Suffolk County Long Island, NY

Appendix 1.3-3  
1 of 1

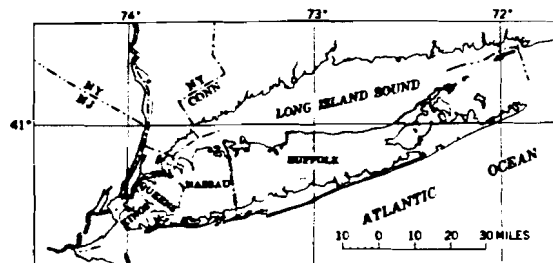
HYDROLOGIC INVESTIGATIONS  
ATLAS HA-501 (SHEET 1 OF 2)

Jensen & Soren, 1974

## INTRODUCTION

### WATER NEEDS OF SUFFOLK COUNTY

Water pumped from aquifers underlying Suffolk County (index map) is the sole source of water used for public supply, agriculture, and industry. The county's population grew from less than 200,000 in 1940 to 1.1 million in 1970. Most of the growth occurred after 1950. Ground-water pumpage increased from 40 mgd (million gallons per day) in 1950 to 155 mgd in 1970 (New York State Department of Environmental Conservation, written commun., June 1, 1971). The projected ground-water use for an anticipated population of 2 million in the county by 1990 is 300 mgd (New York State Conservation Department, 1970, p. 26-27).



INDEX MAP SHOWING LOCATION (SHADED)  
OF SUFFOLK COUNTY

### PURPOSE AND SCOPE

The large and growing demand for ground water in Suffolk County has created a need for a detailed knowledge of the geometry and the hydrologic characteristics of the ground-water reservoir. Mapping of subsurface geology and hydraulic heads in the aquifers are important prerequisites to obtaining this information. Maps of the subsurface geologic units of Long Island were first shown in a report by Suter and others (1949, pls. VIII to XXI). But those maps were highly generalized, because there were few data on deep borings and wells in the county when the report was prepared. Since 1949, additional data from many deep borings and wells in the county have been collected.

In 1968, as part of a continuing cooperative program of water-resources studies with the Suffolk County Water Authority and Suffolk County Department of Environmental Control, the U.S. Geological Survey began an updating of the hydrogeologic and hydrologic maps of all the county. The basic data in Jensen and Soren (1971), the first product of the program, are the basis for the hydrologic maps in this report.

### ACKNOWLEDGMENTS

The authors appreciate the cooperation of well-drilling companies, their employees, and the many officials of public and private water companies who furnished geologic and hydrologic data for use in this report.

### GEOLOGIC AND HYDROGEOLOGIC UNITS

Pleistocene glacial drift generally mantles the county's surface. Pleistocene deposits overlie unconsolidated deposits of Late Cretaceous age. The Cretaceous strata lie on a peneplain that was developed on Precambrian(?) crystalline rocks.

Major landforms include ridges, valleys, and plains. These landforms are roughly oriented in belts parallel to the county's length. The northern and the central parts are traversed by irregular sandy and gravelly ridges of terminal moraine. The crest of the northern ridge ranges in height from 100 to 300 feet above sea level and the crest of the central ridge from 150 to 400 feet. The highest altitudes in the inter-ridge area range from 100 to 200 feet. Irregular plains and rolling hills, formed from sandy and gravelly ground moraine and outwash deposits of sand and gravel lie in the area between the ridges. An outwash plain slopes at a near-uniform gradient from the southern base of the central ridge, which is about 100 feet above sea level, southward to Great South Bay and the ocean. Along the north shore, steep bluffs as high as 100 feet and generally narrow sandy and gravelly beaches face Long Island Sound. The barrier-bar system at the southernmost side of the county is composed of sandy beach and dune deposits. The highest altitudes of the barrier bars generally range from 10 to 45 feet.

The ground-water reservoir system of Suffolk County is composed of hydrogeologic units that include lenses and layers of clay, silt, clayey and silty sand, sand, and gravel. A hydrogeologic unit consists of a geologic unit or a group of contiguous geologic units classified by hydraulic characteristics. These units include aquifers, which are principal water sources, and confining layers, which separate the aquifers. The aquifers are, from the land surface downward, the upper glacial aquifer, the Magothy aquifer, and the Lloyd aquifer. The major areal confining layers are, in descending order, the Gardiners Clay, the Monmouth greensand, and the Raritan clay. The base of the ground-water reservoir is the crystalline bedrock. Characteristics of the geologic and the hydrogeologic units are summarized in the table, and the following data of hydrologic significance are shown on the maps: base of ground-water reservoir, altitudes of aquifers, altitudes and limits of confining layers, and distribution of surficial deposits. The hydrogeologic sections show the vertical relations of the units to each other.

The sharp angular shapes of some of the contours reflect the fact that in places the contours are drawn on stratigraphic tops of the hydrogeologic units and in places the contours are drawn on erosional surfaces. The sharp angles result from the juncture of a stratigraphic top and an eroded surface.

Appendix 1.3-4  
1 of 2

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

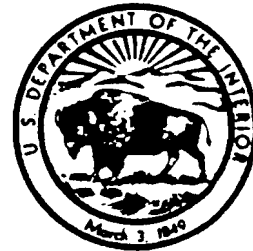
By E. R. LUBKE

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

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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*



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 exists between the shallow and intermediate aquifers. Conse-

WORKSHEET: COMMUNITY WATER SUPPLIES  
WITHIN A 3-mi RADIUS OF THE  
SITE - EMR Circuits, INC

p. 10/14

<u>Community Water Supply</u>	<u>Water District</u>	<u>Well Field</u>	<u>Well</u>	<u>Depth (ft)</u>	<u>Aquifer</u>
SCWA	Smithtown	Cornell Dr	1S-11891	119	Glacial
			2S-63996	654	Magothy
	Smithtown	Walter Ct	1S-4184	162	Glacial
			2S-53360	672	Magothy
	Huntington	Schuyler	1S-22362	314	Glacial
			2S-23715	313	Glacial
	Smithtown	Capital Ct.	1S-20369	312	Magothy
			2S-58708	424	Magothy
	Smithtown	Wicks Rd	1S-22471	375	Magothy
			2S-23832	409	Magothy
			3S-36976	418	Magothy
	Bayshore	Empay Blvd.	1S-23445	608	Magothy
			2S-31104	660	Magothy
			3S-57008	634	Magothy
	Bayshore	Commercial Blvd.	1S-30234	153	Glacial
			2S-31624	439	Magothy
			3S-37141	429	Magothy
	Bayshore	Delores Pl.	1S-54308	718	Magothy
			2S-65765	795	Magothy
	Bayshore	Oral Drive	1S-15500	147	Glacial
			2S-15501	154	Glacial
			3S-19584	155	Glacial
			4S-51519	408	Magothy
	Smithtown	Falcon Dr.	1S-14326	225	Magothy
			2S-44744	293	Glacial
	Smithtown	Wheeler Rd	1S-15746	127	Glacial
			2S-19377	131	Glacial
			3S-23182	241	Magothy
			4S-38491	283	Magothy
Brentwood	Brentwood	Morris St. Third Ave	2-3S-32112	755	Magothy
			1-4S-43088	753	Magothy

WORKSHEET (cont.)

<u>Community</u> <u>Water Supply</u>	<u>Water</u> <u>District</u>	<u>Well Field</u>	<u>Well</u>	<u>Depth</u> <u>(ft)</u>	<u>Aquifer</u>
St. Joseph's Convent L.I. University					

Sources:

SCDHS Water Resources Division. Supply and Monitoring Well Location Maps.

SCWA. 1984. Well Descriptions.

SCWA. 1985. Distribution System Plates. 16N, 25N, 14M, 25M, 26M.

SCWA. 1986. Active Services Estimates and Service Area Map.

Brando, 1986. Superintendent, Brentwood Water District. Personal Communication. 26 February.

NYSDOH. 1982. New York State Atlas of Community Water System Sources.



P. 314 OK

COMMUNICATIONS RECORD FORM

Distribution: (X) File, ( ) , ( ) , ( ) Author

Person Contacted: Mr. Brando Date: 26 February 1986

Phone Number: (516) 273-4565 Title: Superintendent

Affiliation: Brentwood Water District Type of Contact: Telephone

Address: Person Making Contact: E. Bidwell

Communications Summary: The 2 wellfields in our studies pull from the Magothy Aquifer. They own one other well and their system is fully integrated. They currently have 6,500 hookups approximately 26,000 consumers.

They are in the process of installing a system in an Industrial Park. This park will eventually house 150 buildings. The area is bounded on the north by Pilgrim State Hospital, the east by Sagtikos State Parkway, the south by Long Island Railroad and the west by Islip Town Line.

(see over for additional space)

Signature: E. Bidwell



Smithtown W.D.

Greenland W.D.

DIX HILL W.D.

SCWA

EMR Circuits # 150105

SCWA Service Area

Brentwood W.D.

Sale Line/mile

100

RECEIVED



United States  
Department of  
Agriculture

Soil  
Conservation  
Service

127 East Main Street  
Riverhead, New York 11901

March 13, 1986

Mr. William L. Going, Manager  
Environmental Assessment Studies  
EA Science and Technology  
R.D. 2, Box 91  
Middletown, New York 10940

Dear Mr. Going:

This office has not compiled any information on the number of acres irrigated based on specific locations in Suffolk County. The 1982 Census of Agriculture estimates that 23,232 acres are irrigated on 500 farms, however, the specific locations of this acreage is not readily available.

The major source of irrigation water in Suffolk County is groundwater through wells. There are literally thousands of wells scattered throughout the county. To locate wells within a three mile radius of the inactive hazardous waste sites would be an impossible task.

Just to inventory the irrigated acres in proximity to these sites would be very time consuming. I do not have the manpower nor the time at present to accomplish such a task.

I would be more than willing to provide you with access to our aerial photographs, soil maps, topographic surveys and other technical information which might be helpful to you in making this inventory.

If you have any questions or I may be of further assistance, call me at 516-727-2315.

Sincerely,

*Allan S. Connell*

Allan S. Connell,  
District Conservationist

*3/28/86 Mr. Connell says that the 23,232/500 farms represent the vast majority, in excess of 90% in Suffolk Co. and that I can assume all irrigate and I will contact ag. land on color photos (aerial) to irrigated acreage.*  
*William L. Going*





**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 Grafting Ave. Person Making Contact: Bond  
Riverhead NY

Communications Summary: I asked Dan question about irrigation practices in Suffolk Co. ie. could Coop Ext. identify sources of irrigation water (wells + surface) and tell me for all irrigated ~~acres~~ 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 SC.DHS had the maps to indicate location and number (Joe Bair?) or (Blair Coey).

\* 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 Gony



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 Babco Dr. Person Making Contact: Bud Hoing
Hempstead, NY

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

Steve said well greater than
45 ppm were registered by NYS DEC Reg 1
except that farms were mostly exempted.

He suggested I contact Doug Pica NYS DEC
for information.

(see over for additional space)

Signature: William Hoing



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: Stony Brook NY Person Making Contact: Bud Horig

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 land wells because they are exempted from regulation. He therefore has no info on farm land irrigation sources.

(see over for additional space)

Signature: William Horig

**COMMUNICATIONS RECORD FORM**

Distribution: ( ) \_\_\_\_\_, ( ) \_\_\_\_\_  
( ) \_\_\_\_\_, ( ) \_\_\_\_\_  
( ) Author

Person Contacted: Mr Charles Guthrie Date: 10/14/86

Phone Number: (516) 751-7900 Title: Regional Fisheries Manager

Affiliation: NYSDEC Region I Type of Contact: phone

Address: SUNY Campus - Building 40 Person Making Contact: L. Rogers  
Stony Brook, NY 11794

Communications Summary: Mr Guthrie indicated that New Mill Pond, also called Wells Stump Pond, is located in a County Park. Its recreational uses include fishing and boating.

(see over for additional space)

Signature: L. Rogers

COMMUNICATIONS RECORD FORM

Distribution: ( ) DEC 63A, ( ) \_\_\_\_\_  
 ( ) \_\_\_\_\_, ( ) \_\_\_\_\_  
 ( ) Author

Person Contacted: John Ozard Date: 3-6-86

Phone Number: 5184397486 Title: Sr. Wildlife Biologist

Affiliation: NYS DEC Type of Contact: Phone

Address: DELMAR NY Person Making Contact: W. Geing

Communications Summary: Called John for clarification of the letter, dated 26 February 1986, regarding "significant habitats" ...

Q. Don't see any reference to federally listed threatened or Endangered spp. on any of the 42 site locator maps you sent back in your letter ... does this mean there is no habitat of concern for these spp? A. yes ... there is no critical habitat for (Federal spp) at any of the sites being examined.

Q. Are all the wetlands on LI in the vicinity of our sites (refer to locator maps) "coastal" wetlands?  
 A. Yes. They all have varying amounts of salt being that near the Sound or the Ocean, to be considered coastal wetlands ... also refer to the ("Natural Heritage") wetlands marked in blue.

(see over for additional space)

Signature: William Geing



**COMMUNICATIONS RECORD FORM**

Distribution: ( ) EMR Circuits, Inc., ( ) \_\_\_\_\_  
( ) \_\_\_\_\_, ( ) \_\_\_\_\_  
( ) Author

Person Contacted: Mr. Al Anderson Date: 4-21-86

Phone Number: 516 360 7539 Title: Chief Fire Inspector

Affiliation: Town of Smithtown Type of Contact: Phone

Address: 99 West Main St Person Making Contact: Going  
Smithtown NY 11787

Communications Summary: I explained our Phase I study  
and asked if the former location of EMR Circuits  
at 99 Main St. was now an imminent  
threat from fire or explosion.

Mr. Anderson said that it was not.

(see over for additional space)

Signature: William Gouj

SUFFOLK COUNTY WATER AUTHORITY  
Oakdale, New York

ACTIVE SERVICES

December 1985

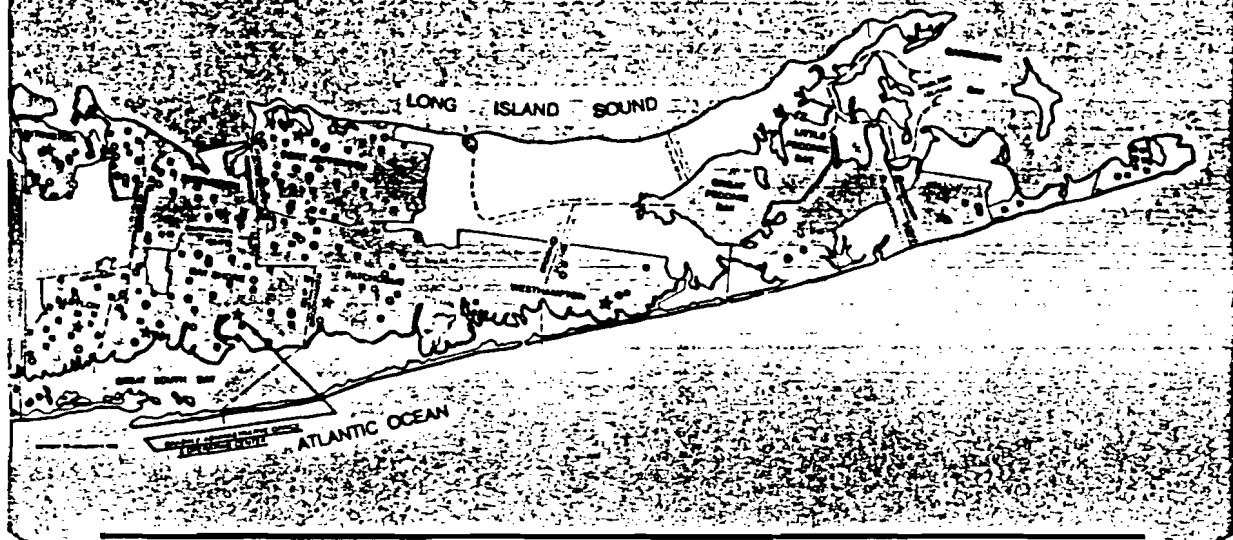
<u>DISTRICT OFFICES</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>Increase or Decrease 1985/84</u>
BABYLON	53 647	53 995	54 655	660
BAY SHORE	46 846	47 269	47 830	561
PATCHOQUE	49 408	51 412	55 104*	3692
HUNTINGTON	28 303	28 530	28 794	264
PORT JEFFERSON	32 881	33 524	34 440	916
SMITHTOWN	22 832	23 257	23 641	384
WESTHAMPTON	4 089	4 451	4 984	533
EAST HAMPTON	<u>10 245</u>	<u>10 523</u>	<u>10 841</u>	<u>318</u>
TOTAL FOR AUTHORITY	248 251	252 961	260 289	7328

\*Includes 970 Active Services Acquired from  
Shirley Water Works Co. 3/29/85

cc: Messrs. Hazlitt, Hanrahan, Sidoti, Schickler, Koehler, Dugan, Daly and Cannon  
jh - 2/4/86

*SP*  
3/26

# Communities Served:



□ SCWA SERVICE AREAS    ■ WELL FIELD & PUMP STATIONS    ★ COMMERCIAL OFFICES    ○ STORAGE FACILITY

## BABYLON DISTRICT

- Amity Harbor
- Amityville
- Babylon
- Copiague
- Deer Park
- Dix Hills
- Lindenhurst
- North Amityville
- North Babylon
- North Lindenhurst
- Pinelawn
- West Babylon
- Wheatley Heights
- Wyandanch

## BAY SHORE DISTRICT

- Bay Shore
- Brentwood
- Brightwaters
- Central Islip
- East Islip
- Edgewood
- Great River
- Islip
- Islip Terrace
- North Bay Shore
- North Great River
- Oakdale
- West Bay Shore
- West Islip

## HUNTINGTON DISTRICT

- Asharoken
- Centerport
- Cold Spring Harbor
- Commack
- Crab Meadow
- East Huntington
- East Neck
- East Northport
- Eatons Neck
- Fort Salonga
- Halesite
- Huntington
- Huntington Bay
- Huntington Station
- Lloyd Harbor
- Northport

## EAST HAMPTON DISTRICT

- Amagansett
- East Hampton
- Freetown
- Montauk
- North Sea
- Sag Harbor
- Southampton

## PATCHOGUE DISTRICT

- Bayport
- Bellport
- Blue Point
- Bohemia
- Brookhaven
- Coram
- East Holbrook
- East Patchogue
- Farmingville
- Gordon Heights
- Holbrook
- Holtsville
- Lakeland
- Lake Ronkonkoma
- Mastic

- Mastic Beach
- Medford
- North Bellport
- North Patchogue
- Patchogue
- Ronkonkoma
- Sayville
- Selden
- Shirley
- South Centereach
- South Holbrook
- South Yaphank
- West Bellport
- West Ronkonkoma
- West Sayville
- Yaphank

## PORT JEFFERSON DISTRICT

- Belle Terre
- Centereach
- Coram
- East Setauket
- Lake Grove
- Middle Island
- Miller Place
- Mount Sinai
- North Centereach
- North Selden
- Poquott
- Port Jefferson
- Port Jefferson Station
- Ridge
- Rocky Point
- Setauket
- South Setauket
- Sound Beach
- South Stony Brook
- Stony Brook\*
- Strong's Neck
- Terryville

## SMITHTOWN DISTRICT

- East Commack
- Flowerfield\*
- Hauppauge
- Kings Park
- Nesconset
- Saint James\*
- San Remo\*
- Smithtown
- South Hauppauge
- West St. James
- West Smithtown\*
- Village of Head of The Harbor
- Village of The Branch

## WESTHAMPTON DISTRICT

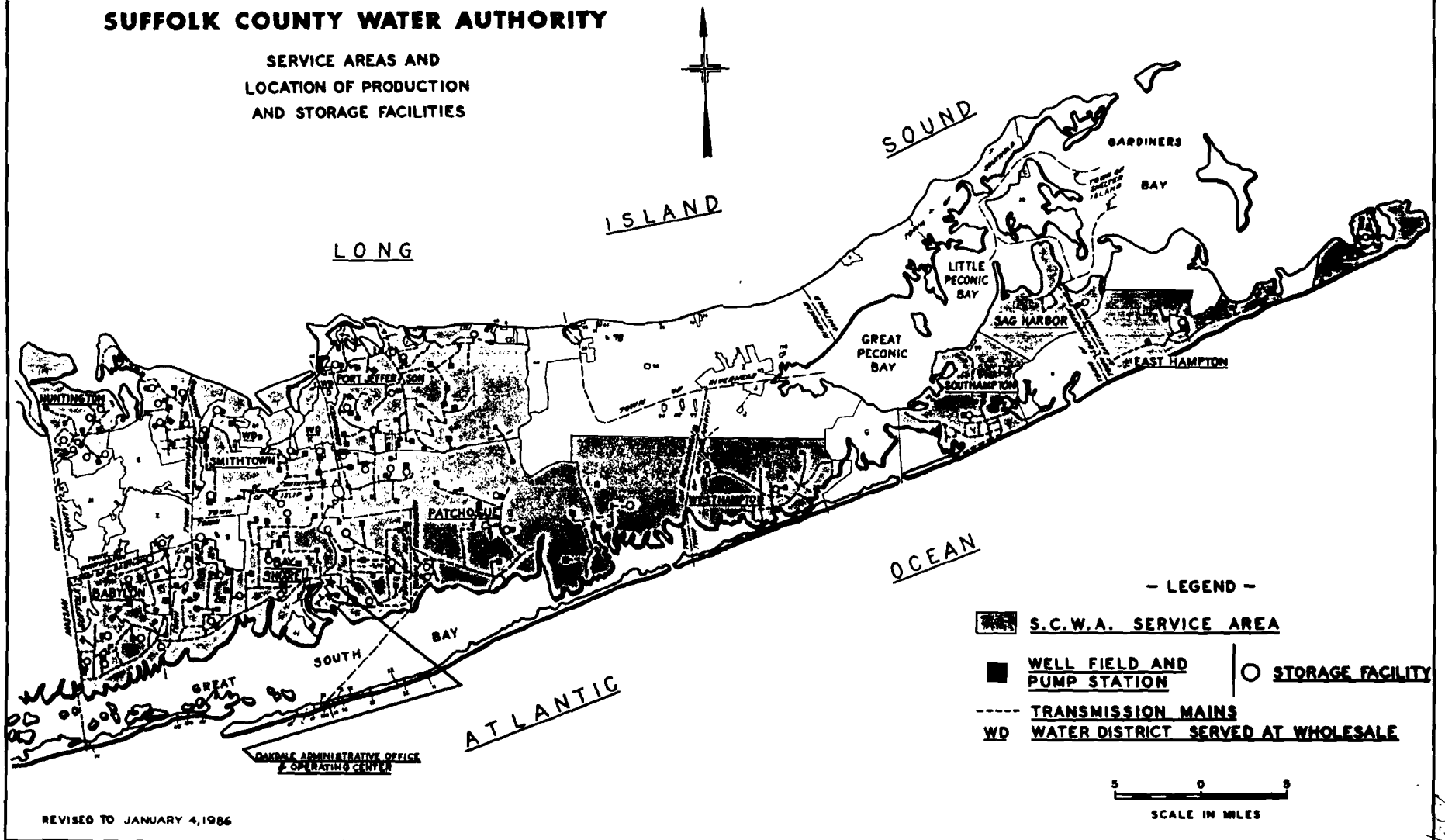
- Center Moriches
- East Moriches
- Eastport
- East Quogue
- Moriches
- South Manor
- Quogue
- Quogue
- Westhampton
- Westhampton Beach

\* Included in Wholesale Water District



# SUFFOLK COUNTY WATER AUTHORITY

SERVICE AREAS AND  
LOCATION OF PRODUCTION  
AND STORAGE FACILITIES



REVISED TO JANUARY 4, 1986

5 0 5  
SCALE IN MILES

13-13








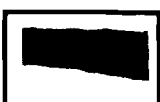






203



Scale: 1 in. = 4,650 ft

# LEGEND

## RESIDENTIAL

-  1 D.U. & Less/Acre (low density)
-  2-4 D.U. / Acre
-  5-10 D.U. / Acre
-  11 D.U. & Over/Acre (high density)
  
-  Commercial
-  Commercial Recreation
-  Industrial
-  Institutional
-  Open Space & Recreational
-  Agricultural
-  Transportation & Utilities
-  Vacant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE  
INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: \_\_\_\_\_ SITE CODE: 152105

NAME OF SITE: EMR Circuits REGION: 1

STREET ADDRESS: 99 Marcus Boulevard

TOWN/CITY: Smithtown COUNTY: Suffolk

NAME OF CURRENT OWNER OF SITE: Grenlein Realty Co. c/o Neil H. Klein Co.

ADDRESS OF CURRENT OWNER OF SITE: 175 Great Neck Road, Great Neck New York 11021

TYPE OF SITE: OPEN DUMP  STRUCTURE  LAGOON   
LANDFILL  TREATMENT POND

ESTIMATED SIZE: 0.05 ACRES

SITE DESCRIPTION:

The site was a circuitboard manufacturing operation which operated from 1981 until 1984. The owner of the site was found to be discharging hazardous chemicals into a floor drain leading to two leachpools. Samples of the contents of the pools which were taken from 1981 until 1984 contained various solvents and metals. Prior to EMR moving from the site, the company cleaned the leachpools and filled them in.

HAZARDOUS WASTE DISPOSED: CONFIRMED  SUSPECTED

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

<u>TYPE</u>	<u>QUANTITY</u> (POUNDS, DRUMS, TONS, GALLONS)
<u>Various solvents</u>	<u>unknown</u>
<u>Heavy metals</u>	<u>unknown</u>
_____	_____
_____	_____

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

\_\_\_\_\_, 19 81 TO \_\_\_\_\_, 19 84

OWNER(S) DURING PERIOD OF USE: Unknown/Ronald B. Finkelstein (Manager)

SITE OPERATOR DURING PERIOD OF USE: EMR Circuits, Inc., Mr. Stewart Wood (president)

ADDRESS OF SITE OPERATOR: \_\_\_\_\_

ANALYTICAL DATA AVAILABLE: AIR  SURFACE WATER  GROUNDWATER   
SOIL  SEDIMENT  NONE

CONTRAVENTION OF STANDARDS: GROUNDWATER  DRINKING WATER   
SURFACE WATER  AIR

SOIL TYPE: Sand

DEPTH TO GROUNDWATER TABLE: 100 ft

LEGAL ACTION: TYPE: \_\_\_\_\_ STATE  FEDERAL

STATUS: IN PROGRESS  COMPLETED

REMEDIAL ACTION: PROPOSED  UNDER DESIGN

IN PROGRESS  COMPLETED

NATURE OF ACTION: \_\_\_\_\_

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Potential ground-water contamination.

ASSESSMENT OF HEALTH PROBLEMS:

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: 24 September 1986

DATE: \_\_\_\_\_