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

PHASE I - PRELIMINARY INVESTIGATION

FINAL REPORT

TRONIC PLATING COMPANY, INC. SITE

CONTRACT NO. D000452
NYSDEC SITE NO. 152028

Submitted To:
Division of Solid Waste
New York State
Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

Submitted By:
Woodward-Clyde Consultants, Inc.
1250 Broadway, 15th Floor
New York, New York 10001

September 20, 1984

82C4548

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New York, New York 10001

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1250 Broadway, 15th Floor
New York, New York 10001
212-926-2878 (NY/NJ)
212-594-2118 (Direct)
Telex 133-541

Woodward-Clyde Consultants, Inc.

September 20, 1984
82C4548

New York State Department of Environmental Conservation
Division of Solid Waste
Room 209
50 Wolf Road
Albany, New York 12233

Attention: Mr. Norman H. Nosenchuck
Director

Subject: Engineering Investigations at Inactive Hazardous Waste Sites in the State of New York
Phase I - Preliminary Investigation
Tronic Plating Company, Inc.
NYSDEC No. 152028
EPA No. Not Available

Dear Sir:

This report presents the results of our Preliminary Investigation of the Tronic Plating Company, Inc. site in Farmingdale, Suffolk County, New York. This preliminary investigation fulfills the requirements of Phase I of our Contract No. D000452 to perform engineering investigations at 40 inactive hazardous waste sites in the State of New York. Phase II involves field investigation services at the sites.

The objective of Phase I was to:

- collect and review data
- perform a site reconnaissance
- prepare a draft Hazard Ranking System (HRS) and Documentation
- develop a specific site work plan for Phase II
- develop Phase II site investigation costs
- identify known responsible parties
- prepare a summary report

This report contains six sections. Section 1.0 includes a description of the site. Section 2.0 presents the preliminary HRS work sheets, the HRS documentation records, and EPA site assessment forms (2070-12 and 2070-13). Section 3.0 provides a brief summary of the history of site activities. Section 4.0 includes a discussion of existing site data. Section 5.0 provides an assessment of the data adequacy identifying major data gaps. Lastly, Section 6.0 presents the recommended Phase II Site Investigation Work Plan and costs. The sampling and analysis plan and the health and safety plan are not included. These are to be supplied by NYSDEC.

Tronic Plating Co. Inc.is an active electroplating and anodizing facility which performs industrial plating for the electronics industry. State and County authorities have determined that hazardous wastes consisting primarily of heavy metals were discharged from storage tanks and leaching pools on the site. The owner of the Tronic Plating Co. site is reportedly Jerrold Roth (President) of Central Avenue, Farmingdale, New York.

The HRS scores developed for the Tronic Plating Co., Inc. site are as follows:

S_M = 41.60 (S_{gw} = 71.97 S_{sw} = 0.0 S_a = 0.0)
S_{FE} = N/A
S_{DC} = 12.50

The adequacy of data must be evaluated in view of the source of the available information. Tronic Plating denied us permission to conduct an on-site inspection of their facility. Therefore, all of the currently available site specific data were taken from existing SCDHS site inspection reports and laboratory test results. No known analyses and testing of soils or water from the site have been conducted.

The work plan for Phase II (field investigations) is specifically designed to address the data gaps identified, and confirm allegations made regarding waste disposal. The location, extent, character, and transport mechanism of the disposed wastes are unknown. We have proposed a limited geophysical survey to better define the possible presence of contaminant plumes. We also propose to install three shallow (30 ± ft.) monitoring wells, and to conduct ground water sampling and analysis. A detailed description of the work plan and costs is provided in Section 6.0. The total estimated cost for Phase II investigations at the Tronic Plating site is $22,584.

If there are any questions or comments concerning the work plan or any other portion of the Phase I report, please do not hesitate to contact us.

Very truly yours,

Donald R. Ganser

Donald R. Ganser,
Project Manager

DRG/cp
C634/119

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1.0
SITE DESCRIPTION

Tronic Plating Company Inc. is located at 168 Central Avenue in Farmingdale, New York (Figure 1). The site is located in southwestern Suffolk County, approximately 1½ miles east of the Nassau County line. Tronic Plating Co., Inc. currently occupies the southeast corner of a long building in an industrial park area. The site presently consists of the building, 2 inside above ground waste storage tanks, 4 below ground leaching pools, and a storm drain in the paved area to the northeast of the building (SCDHS 1983).

At the time of the site survey (WCC, 1983), Tronic Plating was an active electroplating facility and did not grant WCC permission to visit the facility. As a result the site survey was limited to the general vicinity of the site and details of waste storage is based on available documents only. The area surrounding the site is generally paved with other commercial and industrial facilities located in the vicinity. Cemeteries are located ¼ mile east and approximately 1,000 ft. south of the site.

2.0 U.S. ENVIRONMENTAL PROTECTION AGENCY DOCUMENTATION

This section includes documentation records and work sheets required to develop Hazard Ranking System (HRS) scores. In addition, two EPA forms regarding site inspection and preliminary assessment have been completed and are included as required.

Documents included in this section are:

1. Preliminary Hazard Ranking System (HRS) Work Sheets
2. Documentation Records for HRS
3. EPA Form 2070-12 (Preliminary Assessment)
4. EPA Form 2070-13 (Site Inspection Report)

All forms were prepared as completely as possible using information available from county, state, and federal agency files. However site-specific data are very sparce and consist primarily of SCDHS site inspection reports and laboratory test results. All information provided in the Documentation Records for HRS is referenced, and copies of most references are included in Appendix B.

2.1 Preliminary HRS Work Sheets

Facility Name: Tronic Plating Co., Inc.

Location: 168 Central Ave., Farmingdale, NY

EPA Region: II

Person(s) in Charge of the Facility:

Name of Reviewer: C. Mancini, WCC **Date:** 6 Sept. 83

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.)

Areas of concern include inside above ground waste storage tanks, below ground pit and outside leaching pools. Hazardous materials of concern include heavy metals from rinse tanks. The major route of concern is ground water, with a score of 71.97.

Scores: S_M = 41.60 (S_{gw} = 71.97 S_{sw} = 0.0 S_a = 0.0)

S_{FE} = N/A

S_{DC} = 12.50

GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	3.1

If observed release is given a score of 45, proceed to line 4.
If observed release is given a score of 0, proceed to line 2.

2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 (2) 3	1	2	3	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			13	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 (15) 18	1	15	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 (8)	1	8	8	
Total Waste Characteristics Score			23	26	
5 Targets					3.5
Ground Water Use	0 1 (2) 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 (40)	1	40	40	
Total Targets Score			46	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5		41,262		57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 71.97			

SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 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	0	6	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			5	15	
3 Containment	0 1 2 (3)	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 (15) 18	1	15	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 (8)	1	8	8	
Total Waste Characteristics Score			23	26	
5 Targets					4.5
Surface Water Use	(0) 1 2 3	3	0	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	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			0	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		64,350
7 Divide line 6 by 64,350 and multiply by 100	S_{SW} = 0.0				

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 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	
3 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	
4 Multiply 1 x 2 x 3			0	35,100	
5 Divide line 4 by 35,100 and multiply by 100	S_a = 0.0				

	S	S^2
Groundwater Route Score (S_{gw})	71.97	5179.68
Surface Water Route Score (S_{sw})	0.0	0.0
Air Route Score (S_a)	0.0	0.0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		5179.68
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		71.97
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$		$S_M = 41.60$

WORKSHEET FOR COMPUTING S_M

N/A

FIRE AND EXPLOSION WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Containment	1 3	1		3	7.1
2	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	
3	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	
4	Multiply 1 x 2 x 3				1,440	
5	Divide line 5 by 1,440 and multiply by 100	S_{FE} = N/A				

DIRECT CONTACT WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 (1) 2 3	1	1	3	8.2
3 Containment	0 (15)	1	15	15	8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 (3) 4 5	4	12	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			12	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5	2,700			21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 12.50				

2.2 Documentation Records for HRS

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. 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 that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Tronic Plating Company, Inc.

LOCATION: Farmingdale, New York

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

None known.

Rationale for attributing the contaminants to the facility:

N/A.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s). of concern:

Upper glacial aquifer; Magothy aquifer (Franke and McClymonds, 1972; Jensen and Soren, 1974).

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

31 ft. (Donaldson and Koszalka, 1979; USGS, 1979b).

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

13 ft. (Bensin and Burns, 1974).

Net Precipitation

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

46 inches (User's Manual).

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

31 inches (User's Manual).

Net precipitation (subtract the above figures).:

15 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Sandy loam (SCS, 1975).

Permeability associated with soil type:

less than 10^{-3} cm/sec greater than or equal to 10^{-5} cm/sec (User's Manual).

Physical State

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

Liquid (Bensin and Burns, 1979).

3. CONTAINMENT

Containment

Method(s). of waste or leachate containment evaluated:

4 outside leaching pools; 1 inside holding pit; 2 above ground 4,000 gallon storage tanks; 1 100 gallon above ground tank; numerous small rinse tanks; 25 drums.

Method with highest score:

Surface impoundment: 3 (Bensin and Burns, 1974).

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s). evaluated:

	Toxicity	Persistence
Copper	1	3
Zinc	1	3
Silver	1	3
Iron	1	3
Lead	1	3
Cadimum	1	3
Cyanide	3	2

(Bensin and Burns, 1974).

Compound with highest score:

Cyanide : 15 (User's Manual).

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).:

19×10^6 gallons including contaminated soil.

Basis of estimating and/or computing waste quantity:

Based on 1,250,000 gallons per year water usage (Bensin and Burns, 1974). and a minimum of 15 years of operation.

5. TARGETS

Ground Water Use

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

Public water supply, industrial and irrigation of lawns (cemeteries, golf courses). (NYSDEC, 1983a).

Distance to Nearest Well

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

222 Central Ave. (NYSDEC, 1983a).

Distance to above well or building:

1400 ft. (NYSDEC, 1983a).

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:

Public water supply well fields for South Huntington, Dix Hills, East Farmingdale, Babylon (Suffolk County Water Authority) and Plainview Water Districts. Population served are, 51,200, 30,000, 5,200, 377,000, 35,000 respectively. (SCDHS, 1983d; Rand McNally, 1980).

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).:

None (SCDHS, 1983a).

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

About 498,000 (SCDHS, 1983a).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

None known.

Rationale for attributing the contaminants to the facility:

N/A.

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Less than 3 percent (WCC Site Survey, 1983).

Name/description of nearest downslope surface water:

Amityville Creek (USGS, 1979a).

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

Less than 1 percent (USGS, 1969).

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

No (USGS, 1979; WCC Site Survey, 1983).

Is the facility completely surrounded by areas of higher elevation?

No (WCC Site Survey, 1983).

1-Year 24-Hour Rainfall in Inches

2.7 inches (User's Manual).

Distance to Nearest Downslope Surface Water

4 miles (USGS, 1979a; USGS, 1979b).

Physical State of Waste

Liquid (Bensin and Burns, 1974).

* * *

3. CONTAINMENT

Containment

Method(s). of waste or leachate containment evaluated:

See: Ground Water.

Method with highest score:

Surface impoundment : 3 (Bensin and Burns, 1974).

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s). evaluated

See: Ground Water.

Compound with highest score:

See: Ground Water.

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).:

19×10^6 gallons including contaminated soils

Basis of estimating and/or computing waste quantity:

See: Ground Water.

* * *

5. TARGETS

Surface Water Use

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

None (USGS, 1979a, USGS, 1979b).

Is there tidal influence?

No (USGS, 1979a, USGS, 1979b).

Distance to a Sensitive Environment

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

None (NYSDEC, Division of Fish and Wildlife, 1975a).

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

None (NYSDEC, Division of Fish and Wildlife, 1975b).

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

None (NYSDEC, Division of Fish and Wildlife, 1983; U.S. Fish and Wildlife Service, 1983).

Population Served by Surface Water

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

N/A.

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

N/A.

Total population served:

N/A.

Name/description of nearest of above water bodies:

N/A.

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

N/A.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

None known.

Date and location of detection of contaminants:

N/A.

Methods used to detect the contaminants:

N/A.

Rationale for attributing the contaminants to the site:

N/A.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

None known.

Most incompatible pair of compounds:

None known.

Toxicity

Most toxic compound:

None known.

Hazardous Waste Quantity

Total quantity of hazardous waste:

19 x 10^6 gallons including contaminated soil

Basis of estimating and/or computing waste quantity:

See: Ground Water.

* * *

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
157,031	1239	0	

(Donnelly Marketing, 1982).

Distance to a Sensitive Environment

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

None (NYSDEC, Division of Fish and Wildlife, 1975a).

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

None (NYSDEC, Division of Fish and Wildlife, 1975b).

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

None (NYSDEC, Division of Fish and Wildlife, 1983).

Land Use

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

Immediately adjacent to site (WCC Site Survey, 1983).

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

1.2 miles (USGS, 1979b).

Distance to residential area, if 2 miles or less:

0.5 miles (Donnelly Marketing, 1982).

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

None (NYS Department of Agriculture and Marketing, 1983).

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

None (NYS Department of Agriculture and Marketing, 1983).

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

No (NYS Parks and Recreation, 1983).

2.3 EPA Form 2070-12

(Preliminary Assessment)

1

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

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
TRONIC PLATING COMPANY, INC.	168 CENTRAL AVE.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
FARMINGDALE	NY	11735	SUFFOLK	103	

09 COORDINATES LATITUDE	LONGITUDE
40 45 13.0	73 24 43.0

10 DIRECTIONS TO SITE (Starting from nearest public road)
Harry Truman Expressway east to Rt. 110 south, east on New Highway, east onto Central Ave.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
JERROLD ROTH, PRESIDENT	168 CENTRAL AVE

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
FARMINGDALE	NY	11735	(516) 292-7883

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 ☐ NO DATE 7, 27, 83 (MONTH DAY YEAR)

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): WOODWARD-CLYDE CONSULTANTS, INC.

02 SITE STATUS (Check one)
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1968 (BEGINNING YEAR) | PRESENT (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
COPPER, SILVER, ZINC, IRON, LEAD, CADMIUM, CYANIDE

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
LEACHATE FROM UNDERGROUND LEACHING POOLS AND RUNOFF FROM UNPROTECTED INDOOR TANK SPILLS HAVE POTENTIAL FOR REACHING GROUND WATER, MIGRATING DOWN GRADIENT, AND ENTERING PUBLIC WATER SUPPLIES.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
WILLIAM ROBERTS	(SCDHS) Suffolk County Dept of Health Services	(516) 451-4627

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
DONALD R. GANSER		WOODWARD-CLYDE CONSULTANTS, INC.	(212) 986-3878 (201) 785-0700	8, 2, 83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

- TONS: ____
- CUBIC YARDS: 94,000
- NO. OF DRUMS: ____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

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

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
MES	COPPER		SURFACE IMPOUNDMENT	8.8	mg/l
MES	ZINC		"	12.0	"
MES	SILVER		"	0.11	"
MES	IRON		"	190	"
MES	LEAD		"	3.2	"
MES	CADMIUM	7440-43-9	"	2.8	"
OCC	CYANIDE	999	TANK		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

SCDHS
USGS Huntington, N.Y. 7½ min. topographic map (1979)
Quadrangle

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 498,000
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
LEACHING POOLS FOUND TO CONTAIN HEAVY METALS AT LEVELS ABOVE STANDARDS.
LEACHATE HAS POTENTIAL OF REACHING GROUND WATER & MIGRATING DOWN GRADIENT

01 [X] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
LEACHATE DISCHARGING INTO STORM DRAIN HAS POTENTIAL FOR ENTERING SURFACE WATERS FROM OUTFLOW OF STORM DRAIN SYSTEM.

01 [ ] C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
No information available (N/A)

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

01 [ ] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [X] F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: UNKNOWN (Acres)
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
LEACHATE LEAKING FROM UNDERGROUND POOLS CONTAMINATING SOILS UNDER SITE WITH HEAVY METALS & CYANIDE

01 [X] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 498,000
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
LEACHATE HAS POTENTIAL FOR REACHING GROUND WATER AND ENTERING PUBLIC WATER SUPPLY DOWNGRADIENT OF SITE.

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

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

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

N/A

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

N/A

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

N/A

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

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

N/A

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: 1982) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION

HAZARDOUS WASTES FROM LEAKING TANKS ALLEGEDLY FLOWED INTO STORM DRAIN

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: 1980) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION

LEACHATE FROM LEAKING POOLS & TANKS AND DISCHARGE INTO STORM DRAIN ALLEGEDLY OCCURED.

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

N/A

III. TOTAL POPULATION POTENTIALLY AFFECTED: 498,000

IV. COMMENTS

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

SCDHS

2.4 EPA Form 2070-13

(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: N/A

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
TRONIC PLATING COMPANY, INC.	168 CENTRAL AVE.				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
FARMINGDALE	NY	11735	SUFFOLK	103	

09 COORDINATES: LATITUDE 40 45 13. | LONGITUDE 73 24 42.

10 TYPE OF OWNERSHIP (Check one): [X] A. PRIVATE [ ] B. FEDERAL _____ [ ] C. STATE [ ] D. COUNTY [ ] E. MUNICIPAL [ ] F. OTHER _____ [ ] G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
7, 27, 83 (MONTH DAY YEAR)	[X] ACTIVE [ ] INACTIVE	1965 (BEGINNING YEAR) | PRESENT (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
[ ] A. EPA [ ] B. EPA CONTRACTOR _____ [ ] C. MUNICIPAL [ ] D. MUNICIPAL CONTRACTOR _____ (Name of firm)
[ ] E. STATE [X] F. STATE CONTRACTOR Woodward-Clyde Consultants, Inc. (Name of firm) [ ] G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
M. SWIENTONIENSKI	ENGR.	IT CORP.	(615) 690-3211
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
M. AKERBERGS	SR. STAFF GEOLOGIST	WCC	(201) 785-0700
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
NONE - DENIED ENTRY			( )
SITE SURVEY CONDUCTED FROM OFF-SITE			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
[ ] PERMISSION [ ] WARRANT	0915	SUNNY - 85°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
WILLIAM ROBERTS	SCDHS Suffolk County Dept of Health Services	(516) 451-4627
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	**05 AGENCY**	**06 ORGANIZATION** / **07 TELEPHONE NO.** / **08 DATE**
DONALD R. GANSEN		Woodward-Clyde WCC Consultants, Inc. (212) 986-2888 (201) 785-0700 — 8, 2, 83 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

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

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)
- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER ____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)
- TONS ____
- CUBIC YARDS 94,000
- NO. OF DRUMS ____

03 WASTE CHARACTERISTICS (Check all that apply)
- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

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

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
MES	COPPER		SURF. IMPOUNDMENT	8.8	mg/l
MES	ZINC		"	12	"
MES	SILVER		"	0.11	"
MES	IRON		"	170	"
MES	LEAD		"	3.2	"
MES	CADMIUM	7440-43-9	"	2.8	"
OCC	CYANIDE	999	TANK		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

SCDHS

EPA

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

II. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 498,000
04 NARRATIVE DESCRIPTION
LEACHING POOLS FOUND TO CONTAIN HEAVY METALS AT LEVELS ABOVE STANDARDS. LEACHATE HAS POTENTIAL FOR REACHING GROUND WATER AND MIGRATING DOWN GRADIENT.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN
04 NARRATIVE DESCRIPTION
LEACHATE DISCHARGING INTO STORM DRAIN HAS POTENTIAL FOR ENTERING SURFACE WATER FROM OUTFLOW OF STORM DRAIN SYSTEM.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
No information available (N/A)

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
N/A

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
N/A

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: UNKNOWN (Acres)
04 NARRATIVE DESCRIPTION
LEACHATE LEAKING FROM UNDERGROUND POOLS POTENTIAL FOR CONTAMINATING SOILS UNDER SITE.

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 498,000
04 NARRATIVE DESCRIPTION
LEACHATE HAS POTENTIAL FOR REACHING GROUND WATER AND ENTERING PUBLIC WATER SUPPLY DOWN GRADIENT OF SITE.

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
N/A

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
N/A

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

J. DAMAGE TO FLORA
NARRATIVE DESCRIPTION
N/A

K. DAMAGE TO FAUNA
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
NARRATIVE DESCRIPTION (Include species(s) of concern)
N/A

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

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

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

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
02 ☐ OBSERVED (DATE: 1982) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
HAZARDOUS WASTES FROM LEAKING TANKS ALLEGEDLY DISCHARGED INTO STORM DRAIN.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
02 ☐ OBSERVED (DATE: 1980) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
LEACHATE FROM LEAKING POOLS & TANKS AND DISCHARGE INTO STORM DRAIN ALLEGEDLY OCCURED.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
N/A

III. TOTAL POPULATION POTENTIALLY AFFECTED: 498,000

IV. COMMENTS

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

EPA FORM 2070-13 (7-81)

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

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☒ G. STATE (Specify) SPDES	NY0075574	7/27/80	4/1/85	
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☒ A. SURFACE IMPOUNDMENT	4	
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND	25	
☒ D. TANK, ABOVE GROUND	3	
☒ E. TANK, BELOW GROUND	1	
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

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

05 OTHER
- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE
0.5 (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.
6" BERM PROTECTING DOOR IN CASE OF INDOOR TANK OR DRUM SPILL

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO
02 COMMENTS

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

SCDHS

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE
A. 0.8 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)
☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (Other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 46000
03 DISTANCE TO NEAREST DRINKING WATER WELL 0.8 (mi)
04 DEPTH TO GROUNDWATER 21 (ft)
05 DIRECTION OF GROUNDWATER FLOW SOUTH EAST
06 DEPTH TO AQUIFER OF CONCERN 21 (ft)
07 POTENTIAL YIELD OF AQUIFER unknown (gpd)
08 SOLE SOURCE AQUIFER ☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)
PUBLIC WATER SUPPLY WELLS FOR E. FARMINGDALE, DIX HILLS, BABYLON, S. HUNTINGTON WATER DISTRICTS, NUMEROUS INDUSTRIAL WELLS, IRRIGATION OF CEMETERIES AND GOLF COURSES WITHIN 3 MILES OF SITE.

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

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)
☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
NONE KNOWN	☐	(mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN
ONE (1) MILE OF SITE: A. 1239 (NO. OF PERSONS)
TWO (2) MILES OF SITE: B. 10700 (NO. OF PERSONS)
FOUR (4) ~~THREE (3)~~ MILES OF SITE: C. 157031 (NO. OF PERSONS)

02 DISTANCE TO NEAREST POPULATION 0.25 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 700-1000

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)
SITE IS LOCATED IN INDUSTRIAL PARK AREA ALONG WITH NUMEROUS COMMERCIAL AND MANUFACTURING BUSINESSES. SURROUNDED BY CEMETERIES AND RESIDENTIAL AREAS.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)
☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)
☒ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
1300 (ft)	unknown (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
15 (in)	2.7 (in)	<3 %	SOUTH	<3 %

09 FLOOD POTENTIAL
SITE IS IN _____ YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. – (mi)
OTHER: B. – (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
– (mi)
ENDANGERED SPECIES: –

13 LAND USE IN VICINITY
DISTANCE TO:
COMMERCIAL/INDUSTRIAL: A. 0 (mi)
RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES: B. 1.2 (mi)
AGRICULTURAL LANDS — PRIME AG LAND: C. – (mi)
AGRICULTURAL LANDS — AG LAND: D. – (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY
SITE IS IN PAVED AREA SURROUNDED BY OTHER BUILDINGS.
RELATIVELY FLAT TERRAIN

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

EPA FORM 2070-13 (7-81)

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

EPA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	N/A

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		NONE	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	NONE

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____ (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS WOODWARD-CLYDE CONSULTANTS FILES

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

SCDHS

EPA FORM 2070-13 (7-81)

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

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
JERROLD ROTH, PRES.		168 CENTRAL AVE.		FARMINGDALE	NY	11735

PARENT COMPANY (if applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

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

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

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

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

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

SCDHS

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	N/A

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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

SCDHS

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. ON-SITE GENERATOR

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

IV. TRANSPORTER(S)

01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
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)*

SCDHS

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

No Past Response Activities Known

II. PAST RESPONSE ACTIVITIES

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

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

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

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

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

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

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION
01 STATE: SY | 02 SITE NUMBER: N/A

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

SCDHS

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	N/A

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

NYSDEC ORDER ON CONSENT FILE NO. 1-0607
ISSUED IN JUNE 1980 FOR VIOLATION OF ARTICLE 17
OF THE ENVIRONMENTAL CONSERVATION LAW.

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

SCDHS

3.0
SITE HISTORY

Tronic Plating Company Inc. has operated continuously from July 1968 to the present (SCDHS, 1968). The history of the site previous to 1968 is unknown. Operations at the site include electroplating, anodizing, and etching operations primarily for the electronics industry (Benson and Burns, 1974). A State Pollution Discharge Elimination System (SPDES) permit was issued to Tronic Plating Company on April 1, 1980 (NYSDEC,1980).

In June 1980, an Order on Concent was issued to Tronic Plating Co., Inc. for discharging industrial wastes to the ground water from leaching pools. Tronic Plating Co., Inc. agreed to obtain a part 360 permit and clean out the leaching pools (NYSDEC, 1980). As of January 1983, a 360 permit has not been obtained, (SCDHS, 1983). The leaching basin was found to be contaminated with copper, silver iron, zinc, lead, and cadmium, (SCDHS, 1979-1982). Also heavy metal contamination is suspected in a storm drain located northeast of the building, (SCDHS, 1982).

In 1982, operations at the facility consisted of the storage of waste acids and cyanides, in a collection pit, above ground storge tanks and in 55 gallons drums inside the facility building. Process cooling water is discharged to a sanitary sewer. The wastes were picked up by various industrial scavengers. Waste flow to the scavengers was 29,800 gallons from January through August 1982, (SCDHS, 1982).

4.0
SITE DATA

4.1 Site Area Surface Features

The site of the Tronic Plating Company Inc. is located in a generally flat area with an average, ground surface slope of less than 3 percent.

There are no surface water features in the vicinity of the site. The area surrounding the site is paved and surface run-off is via existing storm drains.

The predominant land use in the area is industrial. The site is surrounded by existing manufacturing and commercial facilities. Large cemeteries are located to the south and east of the site vicinity.

4.2 Site Hydrogeology

4.2.1 Ground Water Occurrence. Ground water in the site area occurs in unconsolidated sediments of Pleistocene and Cretaceous age. These deposits are approximately 1300 feet thick and overlie Precambrian crystalline bedrock (Taney, 1961; Jensen and Soren, 1974). The low hydraulic conductivity bedrock is considered to be the bottom of the ground water reservoir (Jensen and Soren, 1974).

The site area is directly underlain by glacial outwash deposits consisting of coarse sand and gravel. These deposits comprise the upper glacial aquifer and are probably less than 100 feet thick. Ground water in the upper glacial aquifer occurs at an approximate elevation of 66 feet above MSL (Donaldson and

Koszalka, 1983) which translates to approximately 31 feet below the ground surface at the site (USGS, 1979b). The water table has a hydraulic gradient of about 8 feet per mile (Kimmel and Braids, 1980) in a southeasterly direction.

The next major water bearing unit underlying the site area is the Cretaceous Magothy Formation. The Magothy aquifer is a major aquifer throughout most of Long Island and is hydraulically linked to the upper glacial aquifer. The Magothy aquifer consists of predominantly fine to coarse sand interbedded with clay, silt and lignite. It is believed to be approximately 750 feet thick in the site area (Taney, 1961; Jensen and Soren, 1974).

The Magothy aquifer directly overlies the clay member of the Cretaceous Raritan Formation. The clay in turn overlies and confines the Lloyd Sand member of the Raritan Formation, which constitutes the deep confined aquifer in the site area (Taney, 1961; Jensen and Soren, 1974). The Lloyd Sand consists of stratified beds of sand, gravel, silt and clay.

Underlying the members of the Raritan Formation is crystalline bedrock of Precambrian age. The bedrock surface dips approximately 60 feet per mile to the southeast, as do the overlying Cretaceous formations (Taney, 1961, Franke and McClymonds, 1982).

4.2.2 Ground Water Quality. Ground water quality in Suffolk County is generally good, typically containing less than 100 ppm dissolved solids (51 mg/l in the vicinity of the Babylon landfill). Local contamination by domestic waste, industrial waste, and road salt has caused some alteration of the regional quality of the ground water (Kimmel and Braids, 1980).

Water quality samples from the Babylon landfill show that the water in the upper glacial aquifer has been contaminated by domestic waste with high concentrations of ammonia, nitrate, calcium, sodium, sulfate, and chloride (Kimmel and Braids, 1980).

A plume of leachate-enriched water eminating southeastward from the Babylon landfill has been delineated on the basis of specific conductance. Specific conductance ranges between 1,000 and 2,000 micromhos (umho) throughout the plume; however values between 200 and 400 umho have been measured in wells outside the boundary of the plume in the vicinity of the site area (Kimmel and Braids, 1980).

4.3 Past Sampling and Analysis

Past sampling and analysis at the site has been confined to samples of the waste collected from the leaching pools and above ground tanks (SCDHS, 1979; SCDHS, 1980). All available analytical results are included in Appendix B.

Sampling and water quality analysis from existing wells in the vicinity of the site has been conducted for a study of the leachate plume from the Babylon landfill (Kimmel and Braids, 1980).

There has been no reported soil or air quality sampling for the site area.

5.0
DATA ADEQUACY

Available data were generally adequate for HRS scoring of the Tronic Plating Company site. Based on these data, the route of major concern is ground water, with a score of 71.97. Ground Water Route Characteristics, Waste Characteristics, and Targets all contributed to this relatively high score.

6.0
WORK PLAN

6.1 Objectives

Because there has been no reported previous sampling of ground water and soils at the site, the objective of this proposed work plan is to collect essential field information required to adequately prepare a final HRS Score and recommendations for remedial action. For this site, the work plan will primarily address questions concerning ground water flow and quality and extent of the soil contamination.

6.2 Field Investigation Plan

6.2.1 Geophysical Studies. A geophysical survey utilizing the terrain conductivity technique will be performed at the site. This technique may be utilized to locate any subsurface plumes resulting from leakage of the underground tanks. For this purpose, measurements will be taken around the site vicinity especially in the south and east direction which is downgradient of the facility. Ground water flow is assumed to be in a southeasterly direction. Furthermore, these measurements could help identify anomalous conductivity distributions that may indicate buried metallic objects such as tanks and pipes. The data will be plotted on maps and contoured. These contour maps will provide the basis for defining the number and location of ground water monitoring wells.

It is anticipated that a two person team will require two days to perform the conductivity survey, with readings taken for exploration depths of approximately 50 feet.

6.2.2 Monitoring Wells

6.2.2.1 Installation. Monitoring wells will be installed to provide data pertinent to both water chemistry and characterization of the stratigraphy and ground water regime at the site. It is recommended that three monitoring wells be installed, at the approximate locations shown in Figure 2. Finalized well locations will be determined after the geophysical data has been plotted and reduced. These locations will depend also on the utility search in order to avoid underground obstacles and on accessibility behind the plant building.

One well (MW-1) will be installed at a presumed upgradient location, on the north side of the facility. This well will provide background data on the ground water flowing into the area.

Two monitoring wells will be required to monitor downgradient flow directions and water quality. Wells MW-2 and MW-3 will be installed at the approximate locations shown in Figure 2. These two locations will provide an opportunity for interception of a contaminant plume, from the wastes which have leaked from underground storage tanks.

All monitoring wells will be installed so as to sample the upper 10 feet of ground water. It is assumed that the ground water table will be within 35 feet of the ground surface and that total well depth will not exceed 50 feet.

Borings will be advanced through the overburden by 6-inch I.D. hollow stem augers or driven casing, with continuous split spoon sampling through the upper 15 feet of soil, and at 5-foot intervals below 15 feet. Soil samples will be classified in the field by a hydrogeologist. Selected samples will be sent to our geotechnical laboratory for grain size analysis and Atterberg Limits testing. To maximize information on any volatile organic contaminants, headspace analyses will be conducted on soil samples, using a portable gas chromatograph. These data will be used to evaluate relative concentrations of organic contaminants in various stratigraphic horizons.

Slotted 3-inch I.D. PVC well screen will be installed over 10-foot intervals in each well, with a riser of flush joint, threaded, 3-inch I.D. PVC pipe. Where necessary, risers will extend at least 3 feet above the ground surface to prevent contamination by surface water flooding. A gravel pack will be completed to approximately 2 feet above the top of the screen, where a 1-foot bentonite seal will be installed. To further assure that water samples will be representative of the screened interval, the remaining annular space will be grouted, and a protective steel casing will be installed. After installation, the wells will be developed by pumping, to remove any fine grained material.

We estimate that 9 days will be required to conduct the drilling and well installation operations. This schedule includes time for surveying of well elevations, organic vapor analysis and slug-type permeability testing.

6.2.2.2 Water Elevations. Ground water depths will be measured at the time of well development and again at the time of pumping. Relative well elevations will be surveyed by WCC personnel. Water elevations will be plotted and used to develop contours of the ground water table at the site. Based on this map, the direction(s) of ground water flow will be calculated.

Flow and gradient data will be fundamental input in quantifying site conditions and will be assessed together with plume geometries (if any) inferred from geophysical survey data.

6.2.2.3 Aquifer Testing. "Slug"-type permeability tests will be conducted in each newly installed well to evaluate the permeabiltiy of materials spanning the screened interval. The method is a rapid means by which the in-situ permeability in the immediate vicinity of a monitoring well can be approximated.

The test does not involve pumping of potentially contaminated water, and results generally suffice for ground water flow analysis.

6.2.3 Sampling and Analysis Plan

6.2.3.1 General Plan. Sampling and analysis plan to be supplied by NYSDEC.

6.2.3.2 Sampling Parameters. Previous sampling at the site is limited to the waste materials at the surface. Therefore, the laboratory analysis will focus on chemical screening techniques to determine the range of concentration and the migration of contamination in ground water and contamination of subsurface soils. Sampling parameters include heavy metals and cyanide. Sample types and chemical parameters are summarized in Table 6-1.

It is estimated that one day in the field will be required to collect samples for analytical testing of the ground water and soils.

6.2.3.3 Sampling Locations. One water sample and one soil sample from each of the three ground water monitoring wells will be analyzed. Results of each pair of analyses will be compared to evaluate any downward migration of contaminants through soil. Ground water analyses will be evaluated in terms of other hydrogeologic data to evaluate the presence, distribution, and migration directions of any ground water contaminant plumes.

6.3 Health and Safety Plan

Health and Safety Plan to be supplied by NYSDEC.

6.4 Cost Estimate

Costs for Phase II work were developed based on assumptions, rates, and charges described in WCC's cost proposal submitted to NYSDEC on 29 October 1982. Costs have been grouped by task, and estimates are presented in Tables 6-2, 6-3, 6-4, 6-5, and 6-6. Costs my be affected by the contents of the sampling and analysis plan or the health and safety plan to be supplied by NYSDEC. The

total estimated cost for Phase II investigations at the Tronic Plating Company site is $22,584.

Table 6-1. PROPOSED CHEMICAL ANALYSES AT THE TRONIC PLATING COMPANY SITE.

	ANALYSES	
Sample Type	Metals	Remarks
Ground Water	X	One sample at each of three wells.
Soil	X	One sample from unsaturated zone at each of three wells.

TABLE 6-2. GEOPHYSICAL STUDIES' COSTS.

			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items				
c. Other				
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	40	12.62	505	
		Total Direct Labor		$ 505
	O H Rate	X Base		
4. Labor Overhead				
Labor Overhead	120%	505	606	
		Total Labor Overhead		$ 606
5. Special Testing				
6. Special Equipment - Terrain Conductivity Equipment (EM-34)				$ 400
7. Travel				
a. Transportation			25	
b. Subsistence			120	
		Total Travel		$ 145
8. Consultants		**Total Consultants**		-
9. Other Direct Costs				
10.		**Total Direct Costs and Overhead**		$1,656
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 188
12. Royalties				-
13.		**Sub Total**		$1,844
14. Fee			166	
15.		**Total Estimated Cost**		$2,010

TABLE 6-3. DRILLING/WELL INSTALLATION COSTS.

			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items			$ 7,555	
c. Other				
		Total Direct Material		$ 7,555
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	90	12.62	1136	
		Total Direct Labor		$ 1,136
	O H Rate	X Base		
4. Labor Overhead				
Labor Overhead	120%	1,136	1,363	
		Total Labor Overhead		$ 1,363
5. Special Testing				
6. Special Equipment				
Century Organic Vapor Analyzer			250	
Photovac 10A10 Gas Chromatograph			450	
		Total Special Equipment		$ 700
7. Travel				
a. Transportation			76	
b. Subsistence			420	
		Total Travel		$ 496
8. Consultants				
		Total Consultants		-
9. Other Direct Costs				
10.		**Total Direct Costs and Overhead**		$ 11,250
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 1,583
12. Royalties				-
13.		**Sub Total**		$ 12,833
14. Fee			1,155	
15.		**Total Estimated Cost**		$ 13,988

TABLE 6-4. SAMPLING AND ANALYSIS COSTS.

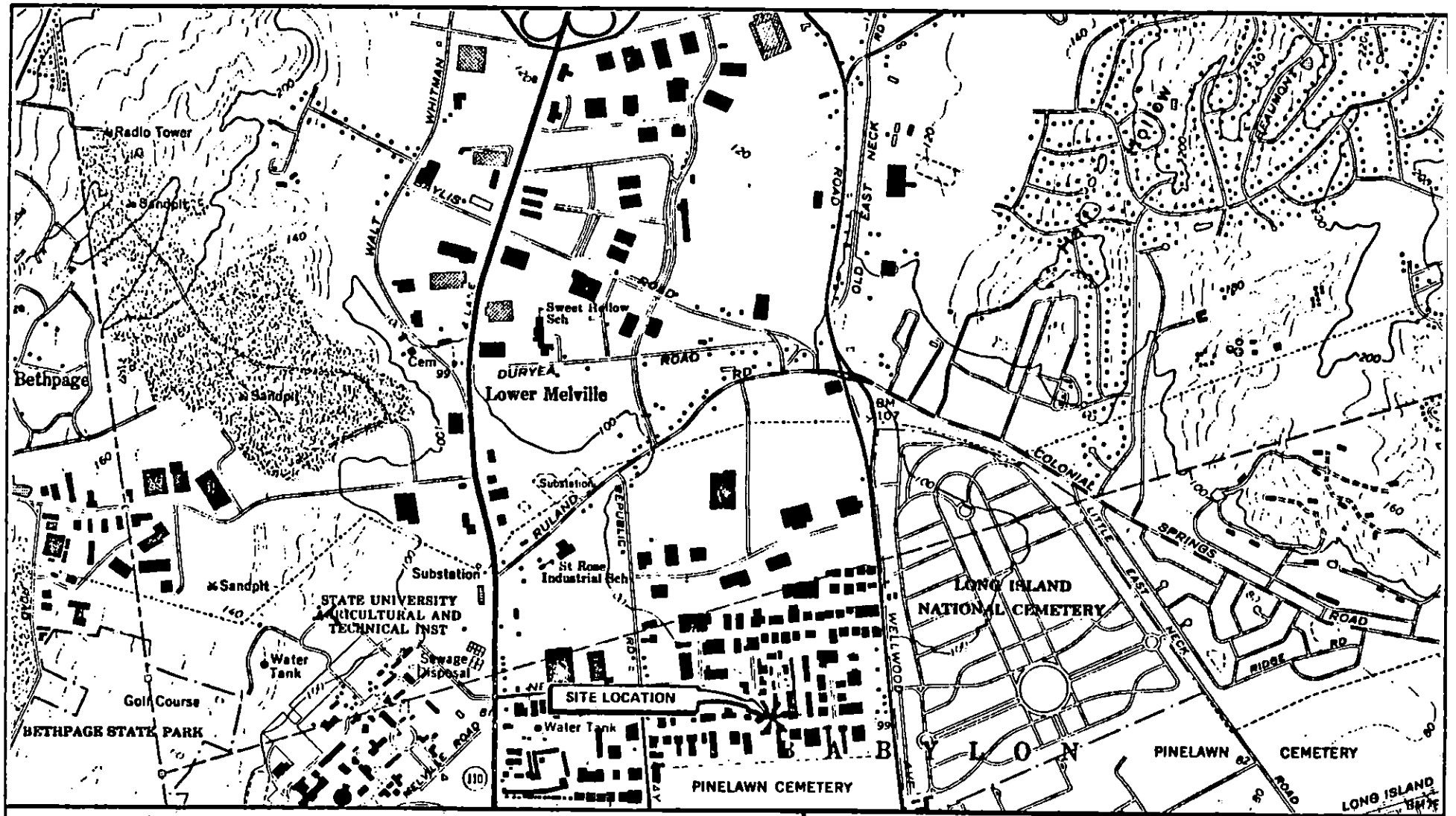
			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts			$ 900	
b. Subcontract Items				
c. Other				
		Total Direct Materials		$900
2. Material Overhead	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	10	11.54	115	
		Total Direct Labor		$ 115
	O H Rate	X Base		
4. Labor Overhead				
Labor Overhead	120%	115	138	
		Total Labor Overhead		$ 138
5. Special Testing				$1,092
6. Special Equipment - Pumps, Bailers				$ 100
7. Travel				
a. Transportation			25	
b. Subsistence				
		Total Travel		$ 25
8. Consultants		**Total Consultants**		-
9. Other Direct Costs				
Sample Shipment			250	
		Total Other Direct Costs		$ 250
10.		**Total Direct Costs and Overhead**		$2,620
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 214
12. Royalties				-
13.		**Sub Total**		$2,834
14. Fee			255	
15.		**Total Estimated Cost**		$3,089

TABLE 6-5. REPORT PREPARATION COSTS.

	Estimated Hours	Rate/ Hour	Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items				
c. Other				
2. Material Overhead				
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	30	12.62	379	
Draftsperson	10	10.24	102	
Typist	3	8.44	25	
Total Direct Labor				$ 506
	O H Rate	X Base		
4. Labor Overhead				
Labor Overhead	120%	506	607	
Total Labor Overhead				$ 607
5. Special Testing				
6. Special Equipment				
7. Travel				
a. Transportation				
b. Subsistence				
8. Consultants				
9. Other Direct Costs			**Total Consultants**	$ 150
10.			**Total Direct Costs and Overhead**	$1,263
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 189
12. Royalties				-
13.			**Sub Total**	$1,452
14. Fee			131	
15.			**Total Estimated Cost**	$1,583

TABLE 6-6. PROJECT MANAGEMENT COSTS.

	Estimated Hours	Rate/ Hour	Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items				
c. Other				
2. Material Overhead				
3. Direct Labor				
Principal In Charge	2	33.32	67	
Activity Leader	10	20.92	209	
Project Manager	10	20.91	209	
Asst. Prj. Engr/Geol/Sci.	10	14.96	150	
Typist	4	8.44	34	
Total Direct Labor				$ 669
	O H Rate	X Base		
4. Labor Overhead				
Labor Overhead	120%	669	803	
Total Labor Overhead				$ 803
5. Special Testing				
6. Special Equipment				
7. Travel				
a. Transportation			55	
b. Subsistence				
Total Travel				$ 55
8. Consultants				
Total Consultants				-
9. Other Direct Costs				
10. **Total Direct Costs and Overhead**				$1,527
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 229
12. Royalties				-
13. **Sub Total**				$1,756
14. Fee			158	
15. **Total Estimated Cost**				$1,914



NOTE: BASE MAP FROM USGS, HUNTINGTON QUAD, 1979

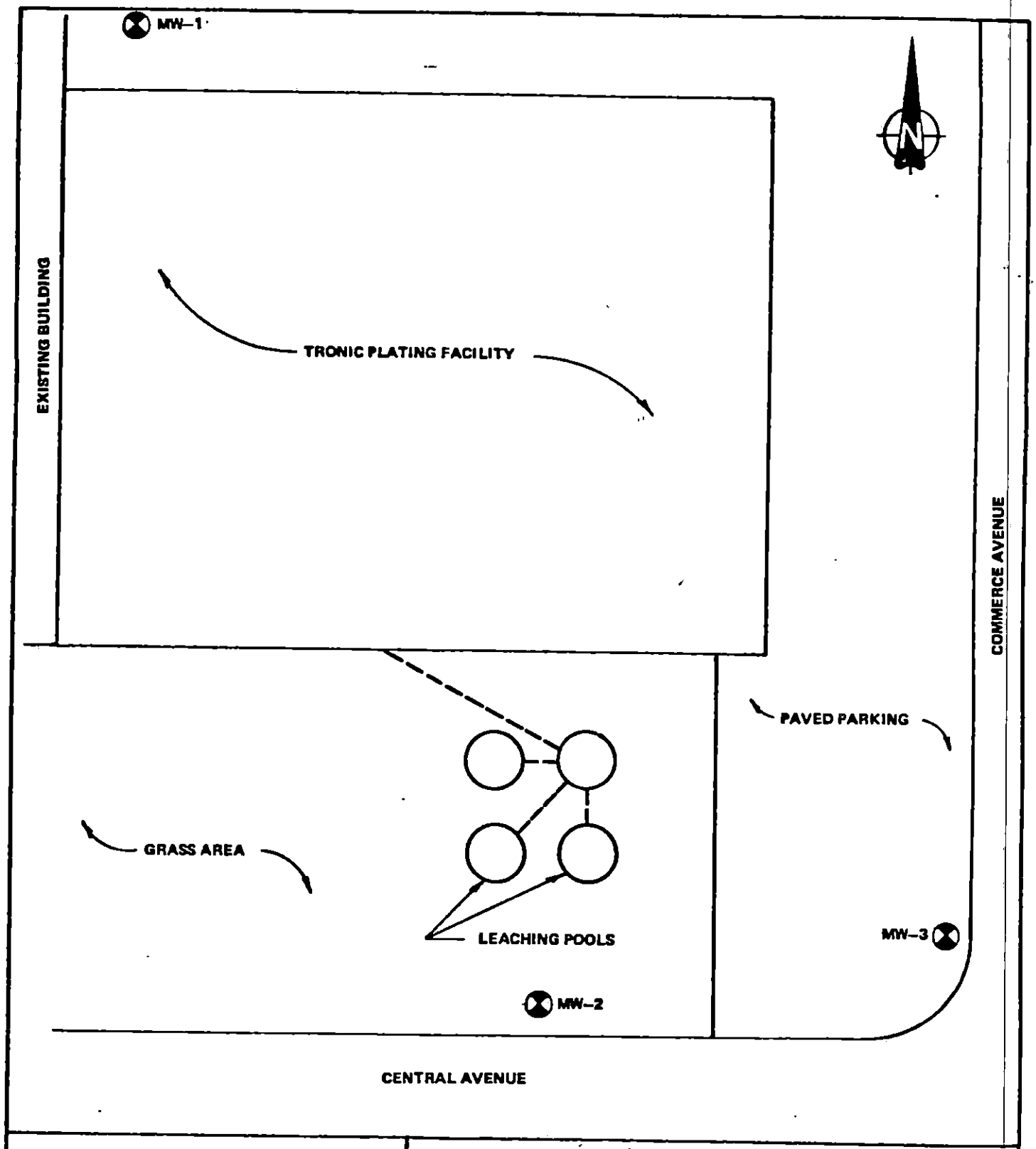
SITE LOCATION MAP
TRONIC PLATING COMPANY

WOODWARD—CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

WAYNE, NEW JERSEY

DR. BY: CIG	SCALE: 1 IN. = 2000 FT	PROJ. NO.: 82C4548-14	
CK'D. BY: AJS	DATE: 31 AUGUST 1983	FIG. NO.: 1	



LEGEND

⊗ PROPOSED MONITORING WELL

NOTE:

DRAWING ADAPTED FROM BENSIN AND BURNS, 1974

LOCATION PLAN
FOR PROPOSED PHASE II INVESTIGATION
TRONIC PLATING COMPANY

WOODWARD—CLYDE CONSULTANTS, INC.

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
NEW YORK, NEW YORK

DR. BY: DRS	SCALE: NOT TO SCALE	PROJ. NO.: 82C4548-14
CK'D. BY: AJS	DATE: 26 AUGUST 1983	FIG. NO.: 2

APPENDIX A

APPENDIX A
REFERENCES

Bensin and Burns Consulting Engineers, 1974, Tronic Plating Co., Inc., Waste Treatment System, Engineering Report, (LOCATION: SCDHS Files).

Donaldson, C.D., and Koszalka, E.J., 1983, Water Table on Long Island, New York, March 1979, U.S. Geological Survey Open-File Report (82-163 Syossett, New York, (LOCATION: WCC Files).

Donnelly Marketing, 1982, American Profile Information Retrieval System, based on 1980 Census Data, Stamford, Connecticut, (LOCATION: WCC Files).

Franke, O.L. and McClymonds, N.E., 1972, Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water-Management Alternatives, U.S. Geological Survey Professional Paper 627-F, Washington, D.C., (LOCATION: WCC Files).

Jensen, H.M. and Soren, 1974, Hydrogeology of Suffolk County, Long Island New York, U.S. Geological Survey Hydrologic Investigations Atlas HA-501, Washington, D.C., (LOCATION: WCC Files).

Kimmel, G.E. and Braids, O.C., 1980, Leachate Plumes in Ground Water From Babylon and Islip Landfills, Long Island, New York, U.S. Geological Survey Professional Paper 1085, Washington, D.C., (LOCATION: WCC Files).

NYS Department of Agriculture and Markets, 1983, Agricultural Districts Map, Division of Rural Affairs, (LOCATION: NYSDA&M/Albany Files).

NYSDEC 1975a, Tidal Wetlands Maps of Suffolk County, Division of Fish and Wildlife, (LOCATION: NYSDEC/Region 1 Files).

NYSDEC 1975b, Freshwater Wetlands Maps of Suffolk County, Central Islip Quad., Division of Fish and Wildlife, (LOCATION: NYSDEC/Albany Files)

NYSDEC, 1980a, Order on Consent Issued to Tronic Plating Co. for Violation of Article 17 of the Environmental Conservation Law of the State of N.Y., File No. 1-0607, (LOCATION: SCDHS Files).

NYSDEC 1980B, SPDES Discharge Permit to Tronic Plating Co, NY-0075574, April 1, 1980 to April 1, 1985.

NYSDEC 1983, Listing and Maps of Significant Habitats in Suffolk County, Division of Fish and Wildlife, Significant Habitats Unit, (LOCATION: NYSDEC Files/Albany).

NYSDEC 1983a, Well Permits, (LOCATION: NYSDEC Files/Albany).

NYS Parks and Recreation, 1983, Files of Suffolk County Historical Sites listed on State and Federal Registers, Division of Historic Preservation, (LOCATION: NYSP&R/Albany Files).

Rand McNally, 1980, Rand McNally Road Atlas, (LOCATION: WCC Files).

Sax, N.I. 1979, Dangerrous Properties of Industrail Materials, Van Nostrand Reinhold, New York (LOCATION: WCC Files).

SCDHS, 1968, Letter to Tronic Plating for District Engineer, Paul A. Wingler dated July 5,1968, (LOCATION: SCDHS Files).

SCDHS, 1979-1982, Notifications of Unsatisfactory Industrial Waste Sampling to Tronic Plating Co. on July 13, 1983, July 6, 1981, December 3, 1980, October 1, 1980, August 5, 1980, May 21, 1980, January 3, 1980, November 14, 1982, (LOCATION: SCDHS Files).

SCDHS, Analysis reprot of sample collected from "Storm drain northeast of rear door of Tronic" on August 25, 1982, (LOCATION: SCDHS Files).

SCDHS, Inspection Report of Tronic Plating Co., August 2, 1982 and January 24, 1983, (LOCATION: SCDHS Files).

SCDHS, 1983, SCDHS Files, (LOCATION: Hauppaque, N.Y.)

Soil Conservation Service, U.S. Department of Agriculture, 1975, Soil Survey of Suffolk County, New York, Washington, D.C., (LOCATION: WCC Files).

Taney, N.E., 1961, Geomorphology of the South Shore of Long Island, New York, Technical Memorandum No. 128, Beach Erosion Board, Corps of Engineers, Washington, D.C., (LOCATION: WCC Files).

U.S. Fish and Wildlife Service, 1983, National Wildlife Refuges, A Vistor's Guide, (LOCATION: WCC Files).

U.S.G.S. 1979a, Amityville, N.Y. 7.5 minute Quadrangle (LOCATION: WCC Files).

U.S.G.S. 1979b, Huntington, N.Y. 7.5 minute Quadrangle, (LOCATION: WCC Files).

Woodward-Clyde Consultants 1983, Site Survey of Tronic Plating, conducted by H. Gold on April 22, 1983, (LOCATION: WCC Files).

APPENDIX B

APPENDIX B
PERTINENT INFORMATION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)
DISCHARGE PERMIT

GENERAL CONDITIONS
(PART II)

PART II - GENERAL CONDITIONS

1. GENERAL PROVISIONS

a. A determination has been made on the basis of a submitted application, plans, or other available information, that compliance with the specified permit provisions will reasonably assure compliance with applicable water quality standards. Satisfaction of permit provisions notwithstanding, if operation pursuant to the permit causes or contributes to a condition in contravention of State water quality standards, or if the Department determines, on the basis of notice provided by the permittee and any related investigation, inspection or sampling, that a modification of the permit is necessary to assure maintenance of water quality standards or compliance with other provisions of ECL Article 17, or the Act, the Department may require such a modification and may require abatement action to be taken by the permittee and may also prohibit the noticed act until the permit has been modified.

b. All discharges authorized by this permit shall be consistent with the terms and conditions of this permit; facility expansions, production increases, or process modifications which result in new or increased discharges of pollutants must be reported by submission of a new SPDES application or, if such new or increased discharge does not violate the effluent limitations specified in this permit, by submission to the permit issuing authority of notice of such new or increased discharges of pollutants (in which case the permit may be modified to specify effluent limitations for any pollutants not identified and limited herein); the discharge of any pollutant not identified and authorized or the discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit.

c. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

d. If the discharge(s) permitted herein originate within the jurisdiction of an interstate water pollution control agency, then the permitted discharge(s) must also comply with any applicable effluent standards or water quality standards promulgated by that interstate agency.

2. PROHIBITIONS

a. The following discharges into the waters of the State are hereby prohibited:

(1) The discharge of any radiological, chemical or biological warfare agent or high-level radioactive waste, such as terms are defined by the Act or pursuant thereto;

(2) Any discharge which the Secretary of the Army acting through the Chief of Engineers finds would substantially impair anchorage and navigation;

(3) Any discharge to which the Regional Administrator has objected in writing pursuant to any right to object provided the Administrator in Section 402(d) of the Act; and

(4) Any discharge from a point source which is in conflict with a plan or amendment thereto approved pursuant to section 208(b) of the Act, or any other discharge not permitted by this article, article 17 of the ECL, other rules and regulations adopted or applicable pursuant thereto, the Act, or the provisions of a SPDES permit.

3. EXCLUSIONS

a. The issuance of this permit by the Department and the receipt thereof by the Applicant does not supersede, revoke or rescind an order or modification thereof on consent or determination by the Commissioner issued heretofore by the Department or any of the terms, conditions or requirements contained in such order or modification thereof.

b. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations; nor does it obviate the necessity of obtaining other assent required by law for the discharge authorized.

c. This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

d. Nothing in this permit shall be deemed to preclude the institution of any legal action nor relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act, as amended.

4. MODIFICATION, SUSPENSION, REVOCATION

a. If the permittee fails or refuses to comply with an interim or final requirement in a SPDES permit, such noncompliance shall constitute a violation of the permit for which the Commissioner may modify, suspend, or revoke the permit or take direct enforcement action pursuant to law. When, at any time during or prior to a period for compliance, the permittee announces or otherwise lets it be known, or the Commissioner on reasonable cause determines, that the permittee

will not make the requisite efforts to achieve compliance with an interim or final requirement, the Commissioner may modify, suspend or revoke the permit and take direct enforcement action pursuant to law, without waiting for expiration of the period for compliance with such requirements.

b. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

1. Violation of any terms or conditions of this permit; or;

2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts, or false or inaccurate statements or information in the application; or;

3. A change in any physical circumstances, requirements or criteria applicable to discharges that requires either a temporary or permanent reduction or elimination of the authorized discharges, such as:

(i) standards for construction or operation of the discharging facility,

(ii) the characteristics of the waters into which such discharge is made,

(iii) the water quality standards applicable to such waters,

(iv) the classification of such waters, or

(v) effluent limitations or other requirements applicable pursuant to the Act or State Law.

c. Notwithstanding (b) above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in Section 17-0813 of the Environmental Conservation Law or Section 307(a) of the Act) is established for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, or if this permit contains no limitations on such pollutants, this permit shall be revised or modified in accordance with the toxic effluent standards or prohibition and the permittee shall be so notified.

This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under sections 301(b)(2) (C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

(1) Contains different conditions or is otherwise more stringent than any effluent limitations in the permit; or
(2) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

5. REPORTING NONCOMPLIANCE

a. If for any reason the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit or should any unusual or extraordinary discharge of wastes occur for the permitted facilities, the permittee shall immediately notify the Department of Environmental Conservation Regional Office by telephon and provide the following information in writing within five days of such notification:

(1) Cause of noncompliance;

(2) A description of the noncomplying discharge including its impact upon the receiving waters;

(3) Anticipated time the condition of noncompliance is expected to continue, or if such condition has been corrected, the duration of the period of noncompliance;

(4) Steps taken by the permittee to reduce and eliminate the noncomplying discharge; and

(5) Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance.

b. Permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitation specified in this permit, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the non-complying discharge.

c. Except as provided herein under Prohibition of Bypass of Treatment Works, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

d. It is recognized that equipment malfunction, acts of God or other circumstances beyond the control of the Permittee may sometimes result in effluent concentrations exceeding the permit limitations despite the exercise of appropriate care and maintenance measures and corrective measures by the Permittee. The Permittee may come forward to demonstrate to the Department that such circumstances exist in any case where effluent concentrations exceed those set forth in this permit. The Department, however, is not bound to wait for or solicit such demonstrations prior to the initiation of any enforcement proceeding; nor must it accept as valid on its face the statements made in any such demonstration. Nevertheless, if the Department seeks to enforce in an administrative or judicial proceeding any provision of any permit issued to the Permittee by any permitting agency, the Permittee may raise at that time the issue of whether under the Constitution, statute, or decisional law it is entitled to a defense that its conduct was caused by circumstances beyond its control.

6. INSPECTIONS

a. The permittee shall allow the Commissioner of the Department of Environmental Conservation, the Regional Administrator, and/or their authorized representative, upon the presentation of credentials:

1. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit;

2. To have access to and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;

3. To inspect any monitoring equipment or practices being maintained pursuant to this permit; or

4. To have access to and sample any discharge of pollutants to waters of the State or to publicly owned treatment works resulting directly or indirectly from activities or operations of the owner or operator of the premises in which the effluent source or outlet is located.

7. TRANSFER OF OWNERSHIP

a. Any permittee who intends to transfer a SPDES permit is required to notify the the Department in advance of the transfer. In the case of a change of ownership only, notice to the Department is required prior to change; in the case of an ownership change accompanied by a change or proposed change in wastewater characteristics, a minimum of 180 days prior notice to the Department is required.

b. The terms and conditions of this permit are binding on the successors or assigns in interest of the original permittee.

8. PERMIT RENEWAL

a. Any permittee who wishes to continue to discharge after the expiration date of a permit shall apply for renewal of its permit no later than 180 days prior to the permit's expiration date (unless permission for a later date has been granted by the Department) by submitting any forms, fees, or supplemental information which may be required by the Department. Upon request, the Department shall provide the permittee with specific information concerning the forms, fees, and supplemental information required.

b. When a permittee has made timely and sufficient application for the renewal of a permit or a new permit with reference to any activity of a continuing nature, the existing permit does not expire until the application has been finally determined by the Department, and, in case the application is denied or the terms of the new permit limited, until the last day for seeking review of the Department order or a later date fixed by order of the reviewing court, provided that this subdivision shall not affect any valid Department action then in effect summarily suspending such permit.

9. SPECIAL PROVISIONS - NEW OR MODIFIED DISPOSAL SYSTEMS

a. Prior to construction of any new waste disposal system or modification which would materially alter the volume of, or the method or effect of treating or disposing of the sewage, industrial waste or other wastes, from an existing waste disposal system, the Permittee shall submit to the Department or its designated field office for review, an approvable engineering report, plans, and specifications which have been prepared by a person or firm licensed to practice Professional Engineering in the State of New York.

b. The construction of the above new or modified disposal system shall not start until the Permittee receives written approval from the Department or its designated field office.

c. The construction of the above new or modified disposal system shall be under the general supervision of a person or firm licensed to practice Professional Engineering in New York State, and upon completion of construction that person or firm shall certify to the Department or its designated field office that the system has been fully completed in accordance with the approved engineering report, plans and specifications, permit and letter of approval.

d. The Department and its designated field offices review wastewater disposal system reports, plans, and specifications for treatment process capability only, and approval by either office does not constitute approval of the system's structural integrity.

10. MONITORING RECORDING AND REPORTING

10.1 General

a. The permittee shall comply with all recording, reporting, monitoring and sampling requirements herein and such other additional terms, provisions, requirements or conditions that the Department may deem to be reasonably necessary to achieve the purposes of the Environmental Conservation Law, Article 17, the Act, or rules and regulations adopted pursuant thereto.

b. Samples and measurements taken to meet the monitoring requirements specified herein shall be representative of the volume and nature of the monitored discharge. Composite samples should be "flow-proportioned" if necessary to obtain a representative sample.

c. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation to insure accuracy of measurements.

10.2 Monitoring Locations

a. Permittee shall take samples and measurements to meet the monitoring requirements at the locations specified.

b. Unless specified otherwise, samples of the effluent shall be taken at the point of combined flow into the outfall sewer.

c. Unless specified otherwise, samples of the influent wastewater shall be taken at the point of plant inflow.

10.3 Recording of Monitoring Activities and Results

a. The permittee shall make and maintain records of all information resulting from the monitoring activities required by this permit.

b. The permittee shall record for each measurement or sample taken pursuant to the requirements of this permit the following information: (1) The date, exact place, and time of sampling; (2) The dates analyses were performed; (3) Who performed the analyses; (4) The analytical techniques or methods used; and, (5) The results of all required analyses.

c. If the permittee monitors any pollutant more frequently than is required by this permit, he shall include the results of such monitoring in the calculation and reporting of the values required in the Discharge Monitoring Report form. Such increased frequency shall be indicated on the Discharge Monitoring Report form.

d. The permittee shall retain for a minimum of three (3) years all records of monitoring activities and results including all records of calibration and maintenance of instrumentation and original strip chart recordings from continuous monitoring instrumentation. This period of retention shall be extended during the course of any unresolved litigation or other proceedings regarding the discharge of pollutants by the permittee or when requested by the Commissioner of the Department of Environmental Conservation or the EPA Regional Administrator.

10.4 Analytical Methods

Following promulgation of guidelines establishing test procedures for the analysis of pollutants, published pursuant to Section 304(g) of the Federal Water Pollution Control Act, as amended, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines. If the Section 304(g) guidelines do not specify test procedures for any pollutants required to be monitored by this permit and until such guidelines are promulgated, sampling and analytical methods used to meet the monitoring requirements specified in this permit shall, unless otherwise specified by the Commissioner, conform to the latest edition of the following references:

1. Standard Methods for the Examination of Water and Waste-Waters, 14th Edition, 1976, American Public Health Association, New York, New York 10019.

2. A. S. T. M. Standards, Part 31, Water; Atmospheric Analysis, 1975, American Society for Testing and Material Philadelphia, Pennsylvania 19103.

3. Methods for Chemical Analysis of Water and Wastes, March, 1979, Environmental Protection Agency Water Quality Office, Analytical Quality Control Laboratory, NECR, Cincinnati, Ohio 45268.

10.5 Application for Alternate Test Procedures

a. The applicant shall submit his application to the Director of the Bureau of Monitoring and Surveillance, Division of Pure Waters, N.Y.D.E.C., 50 Wolf Road, Albany, New York 12233.

b. Unless and until printed application forms are made available, an application for an alternate test procedure may be made by letter in triplicate. Any application for an alternate test procedure shall:

(1) Provide the name and address of the responsible person or firm making the discharge (if not the applicant) and the applicable ID number of the existing or pending permit, issuing agency, and type of permit for which the alternate test procedure is requested, and the discharge serial number.

(2) Identify the pollutant or parameter for which approval of an alternate testing procedure is being requested.

(3) Provide justification for using testing procedures other than those specified in Table I, FEDERAL REGISTER, 52781, Vol. 41, No. 232, Wed., Dec. 1, 1976, or as amended.

(4) Provide a detailed description of the proposed alternate test procedure, together with references to published studies of the applicability of the alternate test procedure to the effluents in question.

10.6 Confidential Information

a. Except for data determined to be confidential under Section 17-0805 of the Environmental Conservation Law or Section 308 of the Act, all such reports shall be available for public inspection at the offices of the Department of Environmental Conservation and the Regional Administrator of EPA Region II. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 71-1933 of the Environmental Conservation Law or Section 309 of the Act.

11. DISPOSAL SYSTEM OPERATION AND QUALITY CONTROL

11.1 General

a. The disposal system shall not receive or be committed to receive wastes beyond its design capacity as to volume and character of wastes treated, nor shall the system be materially altered as to: type, degree, or capacity of treatment provided; disposal of treated effluent; or treatment and disposal of separated scum, liquids, solids or combinations thereof resulting from the treatment process without prior written approval of the Department of Environmental Conservation or its designated field office.

b. The permittee shall at all times maintain in good working order and operate as efficiently as reasonably possible any disposal system or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

c. Any maintenance of the disposal system that may cause a degradation of effluent quality shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by the New York State Department of Environmental Conservation.

d. When required under Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6NYCRR650), sufficient personnel meeting qualifications for operators of sewage treatment works as required therein shall be employed to satisfactorily operate and maintain the treatment works.

e. The permittee shall not discharge floating solids or visible foam, unless specifically authorized by this permit.

11.2 Prohibition of Bypass of Treatment Works

a. Bypass or diversion of wastes from any portion of the treatment facilities is prohibited except:

(1) Where unavoidable to prevent loss of life, serious injury or severe property damage. Severe property damage includes substantial physical damage to property; damage to the treatment facilities which would cause them to become inoperable; or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. It does not include economic loss caused by delays in production; and

(2) Where there are no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime; and

(3) Where the permittee promptly but in no event later than 24 hours after the permittee learns of the bypass, submits notice of the bypass or an anticipated need for bypass to the Department containing the information required by Section 5 of this Part.

Where the permittee knows in advance of the need for the bypass, this notification shall be submitted for approval to the Department before the date of bypass. Bypass shall be either:

(i) Prohibited by the Department in consideration of the adverse effects of the bypass and the factors set out above, or

(ii) Allowed under conditions determined to be necessary by the Department to minimize any adverse effects.

11.3 Special Condition - Disposal Systems with Septic Tanks

If a septic tank is installed as part of the disposal system, it shall be inspected by the permittee or his agent for scum and sludge accumulation at intervals not to exceed one year's duration, and such accumulation will be removed before the depth of either exceeds one-fourth (¼) of the liquid depth so that no settleable solids or scum will leave in the septic tank effluent. Such accumulation shall be disposed of in an approved manner.

11.4 Sludge Disposal

a. The storage or disposal of collected screenings, sludges, other solids, or precipitates separated from the permitted discharges and/or intake or supply water by the permittee shall be done in such a manner as to prevent creation of nuisance conditions or entry of such materials into classified waters or their tributaries, and in a manner approved by the Department. Any live fish, shellfish, or other animals collected or trapped as a result of intake water screening or treatment may be returned to their water body habitat. The permittee shall maintain records of disposal on all effluent screenings, sludges and other solids associated with the discharge(s) herein described. The following data shall be compiled and reported to the Department or its designated field office upon request:

1. The sources of the materials to be disposed of;

2. The approximate volumes and weights;

3. The method by which they were removed and transported;

4. Their final disposal locations.

12. CONDITIONS APPLICABLE TO A PUBLICLY OWNED TREATMENT WORKS (POTW) AND USERS OF A POTW

12.1 GENERAL

a. Notice shall be given the Department of Environmental Conservation of any new introduction of pollutants into the POTW from a source which would be a new source as defined in Section 306 of the Act if such source was discharging pollutants; and, except as to such categories and classes of sources specified by the Commissioner, any new introduction of pollutants which exceed 10,000 gallons on any one day into the POTW from a source which would be subject to Section 301 of the Act if such source was discharging pollutants; and any substantial change in volume or character of pollutants being introduced into the POTW at the time of issuance of the permit. Such notice shall include information on the quality and quantity of effluent to be introduced into the POTW; and an anticipated impact of such change in the quantity or quality of effluent to be discharged from the POTW.

b. The permittee shall require any industrial user of the POTW to comply with the requirements of Section 204(b), 307, and 308 of the Act. Any industrial user subject to the requirements of Section 307 of the Act shall be required by the permittee to prepare and transmit to the New York State Department of Environmental Conservation periodic notice (over intervals not to exceed 9 months) of progress toward full compliance with Section 307 requirements. The permittee, upon receipt of such reports shall transmit a copy promptly to the Department.

c. For discharges from publicly owned treatment works, appropriate measures will be established by the permittee to insure compliance by industrial users with any system of user charges and recovery of construction costs required under the provisions of the Act.

d. Persons discharging industrial waste to a publicly owned treatment works shall comply with toxic effluent standards and pretreatment standards and with monitoring, reporting, recording, sampling and entry requirements provided by the Act or the Environmental Conservation Law, Article 17 or adopted pursuant to the Act or the Environmental Conservation Law, Article 17.

12.2 NATIONAL PRETREATMENT STANDARDS: PROHIBITED DISCHARGES

(Note: The following Section was published in the Federal Register, Vol. 43, No. 123 - Monday June 26, 1978. The effective date of the regulation (Part 403) was August 25, 1978)

§403.5 National Pretreatment Standards: Prohibited Discharges.

(a) Pollutants introduced into POTW's by any source of a nondomestic discharge shall not inhibit or interfere with the operation or performance of the works. These general prohibitions apply to all such users of a POTW whether or not the user is subject to other National Pretreatment Standards or any National, State, or local Pretreatment Requirements.

(b) The following pollutants may not be introduced into a POTW:

(1) Pollutants which create a fire or explosion hazard in the POTW;

(2) Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0 unless the works is specifically designed to accommodate such discharges;

(3) Solid or viscous pollutants in amounts which will cause obstruction to the flow in sewers, or other Interference with the operation of the POTW;

(4) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge of such volume or strength as to cause Interference in the POTW.

(5) Heat in amounts which will inhibit biological activity in the POTW resulting in Interference but in no case heat in such quantities that the temperature at the treatment works influent exceeds 40°C(104°F) unless the works is designed to accommodate such heat.

(c) POTW's developing POTW Pretreatment Programs pursuant to §403.8 shall be required to develop and enforce specific limits for discharges of the pollutants listed in §403.5(b)(1)-(5). In addition, any POTW in violation of an NPDES Permit requirement as a result of Interference by a pollutant listed in §403.5(b)(1)-(5) shall be required by the EPA or NPDES state to develop and enforce such specific limits.

(d) Where specific prohibitions or limits on the pollutants or pollutant parameters listed in §403.5(b)(1)-(5) are developed by a POTW, either as a requirement of an Approved POTW Pretreatment Program pursuant to §403.8 or an NPDES Permit, such limits shall be incorporated in the NPDES Permit issued to the POTW and shall replace and be enforceable in lieu of the general prohibitions set forth in this section.

(e) Compliance with the provisions of this section is required beginning on the effective date of this regulation, except for paragraph (b)(5) of this section which must be complied with within 3 years of the effective date of this regulation.

APPENDIX C

APPENDIX C

UPDATED NEW YORK STATE REGISTRY FORM

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code:

Site Code: 152028

Name of Site: Tronic Plating Co., Inc. Region: 1

County: Suffolk Town/City Farmingdale

Street Address 168 Central Ave.

Status of Site Narrative:

Tronic Plating Co. is an active electroplating facility which has been in operation at least since 1968. Heavy metals were detected in the leaching pools and in a storm drain on site. The facility was ordered to clean out the leaching pools and construct an adequate berm in the building to contain possible spills.

Access to the site was denied so this report is based on available information There is no record of compliant with the above mentioned order on consent.

Type of Site: Open Dump ☐ Treatment Pond(s) ☐ Number of Ponds
Landfill ☐ Lagoon(s) ☒ Number of Lagoons 4
Structure ☒

Estimated Size 0.5 Acres

Hazardous Wastes Disposed? Confirmed ☒ Suspected ☐

*Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons, gallons)
Copper, silver, zinc, iron, lead,	total greater than 19×10^6
cadium, cyanide	gallons including contaminated
	water & soil

* Use additional sheets if more space is needed.

Name of Current Owner of Site: Stockholders (Jerrold Roth, Pres.)

Address of Current Owner of Site: 168 Central Ave. Farmingdale, NY 11735

Time Period Site Was Used for Hazardous Waste Disposal:

July , 19 68 To Present , 19

Is site Active ☒ Inactive ☐
(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐

Remedial Action: Proposed ☒ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action:

Status of Legal Action: _____ State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☒
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

There exists the possibility of ground water contamination from the leaching pools (heavy metals) as well as from inadequately contained spills within the building.

Assessment of Health Problems:

Unknown; there exists a public water supply well field less than one mile distant.

Persons Completing this Form:

Michael Akerbergs

Woodward-Clyde Consultants

August 4, 1983

New York State Department of Environmental Conservation

Date

New York State Department of Health

6/3/81
RPM:cl