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

PHASE I - PRELIMINARY INVESTIGATION

FINAL REPORT

PREFERRED PLATING SITE

CONTRACT NO. D000452 NYSDEC SITE NO. 152030

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 25, 1984 82C4548

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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 25, 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

Preferred Plating Site NYSDEC No. 152030 EPA No. Not Available

Dear Sir:

This report presents the results of our Preliminary Investigation of the Preferred Plating 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:

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



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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.

Preferred Plating went out of business in 1976 and is no longer located at the site. The current owner of this site is unknown. Since 1976, several firms have occupied the site, none of which are conducting similar operations to Preferred Plating.

Preferred Plating operated for more than twenty years at the site. During this time, data indicated that heavy metals were discharged into the subsurface environment causing ground water contamination on site and at nearby Fort Totten, U.S. Army Base.

The WCC Site Survey showed that an automobile repair shop now occupies the site. There is no evidence of the Preferred Plating operations at present.

The HRS scores developed for the Preferred Plating site are as follows:

$$S_M = 33.76 (S_{gw} = 58.41 S_{sw} = 0.0 S_a = 0.0)$$
  
 $S_{FE} = N/A$ 

- 00

SDC = 0.0

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Existing data on the Preferred Plating site were generally not adequate to complete all HRS work sheets. Additional data are needed to determine the contents and number of drums buried and the extent of ground water contamination. Additionally, no estimate has been made of the amount of leachate released to the leaching pools. The proposed work plan has been designed to answer questions primarily concerning soil contamination, ground water flow and quality, surface water flow and quality, and air quality. Proximity to surface waters and the documented presence of aromatic and chlorinated hydrocarbons in the ground water and soil samples indicate that potential health hazards may exist. A detailed description of the work plan and estimated costs is provided in Section 6.0. The total estimated cost for Phase II investigations at the Preferred Plating site is \$17,095.

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,

Project Manager

DRG:cp C732/131

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I.0 SITE DESCRIPTION

Preferred Plating is located in a light industrial area on Allen Boulevard in Farmingdale, Suffolk County, New York (Figure 1). The site is situated east of Route 110 south and is adjacent to the Long Island Railroad. The closest surface water body is approximately 6,000 feet east of the site and is an unnamed intermittent tributary to Massapequa Creek.

The site has changed ownership and use several times over the years and is currently being occupied by an auto repair shop. Preferred Plating was in existence at the site until 1976 when the firm filed for bankruptcy.

The site is located in an area where various light-industries also have operations. The site is nearly flat with a gentle slope toward the south. Over 90% of the immediate area is covered with impervious materials. Adjacent buildings surrounding the site and numerous underground utilities make subsurface investigations difficult.

At the time of the WCC Site Survey (August 16, 1983) the site was not being utilized by Preferred Plating and no evidence of hazardous materials (surface and subsurface) was observed.

2.0

#### U.S. ENVIRONMENTAL PROTECTION AGENCY DOCUMENTATION

#### 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:

- I. 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)

Forms were prepared as completely as possible using information available from county, state and federal agency files. The Suffolk County Department of Health files provided the most complete site-specific data. Information provided in the Documentation Records for HRS are referenced, and copies of most references are included in Appendix B. Analytical results are also included in the appendix.

2.1 Preliminary HRS Work Sheets

	ı	
ecility Name:	Preferred Plating (	Orp
ocation:	32 Allen Blvd., Far	rmingdale, NY (Suffolk County)
FA Region:	II	
Person(s) in Char	ge of the Fecility:	Unknown
Name of Reviewer:	C. Mancini	Date: 6 Sept. 1983
General Descripti	on of the Facility:	
types of hazardo contamination ronaeded for ratin	g; agency action, at	
types of hazardo contamination ro needed for ratin Preferred Plating		parts to increase
types of hazardo contamination ro needed for ratin Preferred Plating corrosion resistan	formerly treated metal	parts to increase for paint. Several
contamination ronaeded for ration Preferred Plating corrosion resistant discharges to ground	formerly treated metal nce and provide base and water have occurre	parts to increase
types of hazardo contamination ro naeded for ratin Preferred Plating corrosion resistant discharges to ground	formerly treated metal nce and provide base and water have occurre	parts to increase for paint. Several d. The company went out of
types of hazardo contamination ro naeded for ratin Preferred Plating corrosion resistant discharges to ground	formerly treated metal nce and provide base and water have occurre	parts to increase for paint. Several d. The company went out of
types of hazardo contamination ro naeded for ratin Preferred Plating corrosion resistant discharges to ground	formerly treated metal nce and provide base and water have occurre	parts to increase for paint. Several d. The company went out of
types of hazardo contamination ronaeded for ration.  Preferred Plating corrosion resistant discharges to ground business in 1976.	formerly treated metal nice and provide base and water have occurred. The route of major controls of the control o	parts to increase  for paint. Several  d. The company went out of oncern is ground water.
types of hazardo contamination ronaeded for ratin  Preferred Plating corrosion resistant discharges to groubusiness in 1976.  Scores: Sm = 33.	formerly treated metal nice and provide base and water have occurred. The route of major control of the control	parts to increase for paint. Several d. The company went out of
types of hazardo contamination ronaeded for ration.  Preferred Plating corrosion resistant discharges to ground business in 1976.	formerly treated metal nice and provide base and water have occurred. The route of major control of the control	parts to increase  for paint. Several  d. The company went out of oncern is ground water.

GROUND WATER ROUTE WORK SHEET									
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)			
<b>-</b>	Observed Release	<b>0</b> 45	1	0	45	5.1			
		given a score of 45, proceed to line 4. given a score of 0, proceed to line 2.							
1	Route Characteristics Depth to Aquifer of	0 1 2 3	2	6	6	3.2			
	Concern Net Precipitation Permeability of the	0 1 2 3	1	2 3	3 3				
	Unsaturated Zone Physical State	0 1 2 3	1	3	3				
		Total Route Characteristics Score		14	15				
3	Containment	0 1 2 3	1	a	3	3.3			
0	Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	0 3 6 9 12 15 18 0 1 2 3 4 5 8 7 8	;	18 B	18	3.4			
		Total Waste Characteristics Score	والمساولة والماداة	26	26				
1	Targets Ground Water Use Distance to Nearest Well/Population Served	0 1 2 3 0 4 8 8 10 12 16 18 20 24 30 32 35 40	3	40	9	3.5			
Abe		Total Tergets Score		46	49				
0	If line 1 is 45, multi If line 1 is 0, multip	lay [] * [] * [] * [] 33,4	†88		57.330				
7	Divide line 6 by 57	,330 and multiply by 100 Sgw = 59	3.41	2-ac-3000 gggaddad					

	SURFACE WATER ROUTE WORK SHEET									
	Rating Factor	Multi- plier	Score	Max. Score	Ref. (Section)					
1	Observed Release	0 45	1	٥	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	- O				4.2				
	Facility Slope and Intervent Terrain	ling 0 1 2 3	1	0	3					
	1-yr. 24-hr. Rainfall Distance to Nearest Surface	0 1 2 3	1 2	2	3					
	Water		1	3	•					
	Physical State	0 1 2(3)	1		3					
		Total Route Characteristics Score		7	15					
3	Containment	0 1 2 3	1	3	3	4.3				
•	Waste Characteristics Toxicity/Persistence Hazardous Wasto Quantity	0 3 6 9 12 15 18 0 1 2 3 4 5 6 7 8	) !	18	18 8	4.4				
		Total Waste Characteristics Score	· · · · · · · · · · · · · · · · · · ·	26	26					
3	Targete Surface Water Use Distance to a Sensitive Environment Population Served/Distance to Water intake	0 1 2 3 0 1 2 3 0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3 2 1	000	9 8 40	4.5				
	Downstream	J 24 30 32 35 40 Total Targets Score		0	55	ļ				
0		1 x 4 x 5 2 x 3 x 4 x 5		0	64,350					
Z	Divide line 📵 by 64.350	and multiply by 100 $S_{SW} = 0$	.0							

AIR ROUTE WORK SHEET									
	Rating Factor	Score	Mex. Score	Ref. (Section)					
0	Observed Release "	0 45	1	0	45	5.1			
	Date and Location:			,,_,_					
	Sampling Protocol:			هبه درومون					
1	If line 1 is 0, the Set I line 1 is 45, then I	oroceed to line 2.				3.442			
)	Waste Characteristics Reactivity and Incompatibility	0 1 2 3	1		3	5.2			
	Toxicity Hazardous Waste Quantity	0 1 2 3 0 1 2 3 4 5 6	7 8 1		5 8				
		Total Waste Characteristics 5	icore		20				
	Targets Population Within	} 0 9 12 15 18	1		30	5.3			
I	4-Mile Radius Distance to Sensitive	) 21 24 27 30 0 1 2 3	2		6				
,	Environment Land Use	0 1 2 3	1		3				
			-	-					
	_								
CONTRACT.		Total Targets Score			39				
1	Multiply 11 x 21 x	<u> </u>		0.0	35,100				
[3]	Divide line 4 by 35.1	00 end multiply by 100 Sa =	0.0						

	. s	<b>s</b> <sup>2</sup>
Groundwater Route Score (Sgw)	58.41	3411.73
Surface Weter Route Score (S <sub>SW</sub> )	0.0	0.0
Air Route Score (Sa)	0.0	0.0
s <sub>gw</sub> + s <sub>sw</sub> + s <sub>s</sub> <sup>2</sup>		3411.73
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_{s}^2}$		58.41
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_{s}^2} / 1.73$		sm - 33.76

WORKSHEET FOR COMPUTING SM

N/A

N/A FIRE AND EXPLOSION WORK SHEET													
										Rating Factor Assigned Value (Circle Ono) Multiplier Score Score (Section)			
1	Containment		1					3	·	1		3	7.1
2	Waste Characterist Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	tics	0 0 0		2 2 2 2		4	5 :	. 7	1 1 1 1 8. <u>1</u>	•	3 3 3 3 8	7.2
		T	otal Was	rte	Cha	rac	teri	stics	Scon	•	:	20 :	
3	Targets Distance to Nearer Population Distance to Nearer Building Distance to Sensit Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius	Bt	0 0 0	1 1 1 1 1	2 2 2	3 3 3 3	4	5 5 5		1 1 1 1	:	5 3 3 5 5	7.3
<b>1</b>	Mulaply 1 x 3	1 × 3	To	tal	Ten	geti	s Sa	ence				24	
5	Divide line [3] b	y 1,440 end	multipl	y b	y 1(	×		Spe	- N	/A	1	I.	

	DIRECT CONTACT WORK SHEET										
	Rating Factor	Multi- plier	Score	Mex. Score	Ref. (Section)						
0	Observed Incident	0 45	1	0	45	8.1					
	tf line 1 is 45, proceed tf line 1 ie 0, proceed t		•								
2	Accessibility	0 1 2 3	1	3	3	8.2					
2	Containment	<ul><li>15</li></ul>	1	0	15	8.3					
O	Waste Characteristics Toxicity	0 1 2(3)	5	15	15	8.4					
3	Targets Population Within e 1-Mile Radius	0 1 2 3 4 5	4	16	20	8.5					
	Distance to e Critical Habitat	<b>(9)</b> 1 2 3	4	0	12						
		Total Targets Score		16	32						
0	If line 1 is 45, multiply If line 1 is 0, multiply	1) x 4 x 5 2) x 3) x 4 x 5		٥	21,600						
	Divide line 6 by 21,600	and multiply by 100 Soc =	٥. <b>٥</b>								

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: Preferred Plating Corporation

LOCATION:

32 Allen Boulevard., Farmingdale, NY

#### **GROUND WATER ROUTE**

#### I. OBSERVED RELEASE

Contaminants detected (5 maximum):

Copper, total chromium, cadmium, hexavelent chrome, cyanide. (Suffolk County, DEC) Jan. 2, 1975.

Well at Army Niki Site NY24C 6 ppm hexavalent chromium E. Farmingdale, N.Y. (Suffolk County DOH, Nov. 10, 1960).

Rationale for attributing the contaminants to the facility:

Facility used these contaminants to their processing. (Donnelly Engineering Corp., 1974).

\* \* \*

#### 2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Upper glacial aquifer (approximately 15 feet) Magothy Aquifer (Isbister, 1966; Kilburn, 1982).

Aguifers are hydraulically connected (Franke and McClymonds, 1972)

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

Approximately 15 feet (Ground Water Control Map, Suffolk County DEC).

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

Approximately 8 feet (Photographs, Suffolk Co. DEC, 6-10-75).

#### 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:

Sand & Gravel (Soil Survey, Suffolk Co.).

Permeability associated with soil type:

Greater than  $10^{-3}$  (User's Manual).

#### Physical State

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

Liquids & Sludges (Suffolk Co. DEC 1971-1976).

#### 3. CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Lined Surface Impoundment severely cracked and leaking (Donnelly Engineering, 1974).

Cesspool (Suffolk County DEC, 1975 Inspection).

Method with highest score:

Surface Impoundment (2)

#### 4. WASTE CHARACTERISTICS

#### Toxicity and Persistence

#### Compound(s) evaluated:

	<u>Toxicity</u>	Persistence
Nitric Acid	3	0
Sulfuric Acid	3	0.
Hydrochloride Acid	3	. 0
Cadmium;	3	3
Chromium	3	3

Compound with highest score:

Chromium (18).

#### 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):

About 2,000 gallons per month x 25 years (300 months) = 600,000 gallons of Wastes (Liquid). (Donnelly Engineering, 1974).

Basis of estimating and/or computing waste quantity:

Based on water usage (Donnelly Engineers, 1974).

#### 5. TARGETS

#### Ground Water Use

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

Municipal water Supplies, industrial, irrigation (Kilburn, 1982).

#### Distance to Nearest Well

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

Well on site used for processing water (Donnelly Engineering, 1974). No longer in use.

Distance to above well or building:

On site.

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

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

Republic Aviation Corp. (10 wells), (1,100 employees). SCWA Babylon Water District (16 wells), Population 900,000. Industrial wells (6).

E. Farmingdale Water District, Population 7,850. (NYS DOH, NYS Community Water System Sources, 1982).

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

None reported.

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

+ 10,000 (Rand McNally, 1983).

#### **SURFACE WATER ROUTE**

#### OBSERVED RELEASE

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

None detected.

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 (USGS Quadrangle, Amityville; WCC Site Survey, 1983,).

Name/description of nearest downslope surface water:

Unnamed tributary to Massapequa Creek (Amityville, USGS, Quad.). Approximately 6,000 feet.

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

Less than I percent (USGS Quad. Amityville).

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

No. (WCC Site Survey, 1983).

Is the facility completely surrounded by areas of higher elevation? No (WCC Site Survey, 1983).

#### 1-Year 24-Hour Roinfall in Inches

2.7 (Figure 8, User's Manual).

#### Distance to Nearest Downslope Surface Water

Approximately 7,000 feet (USGS Amityville Quad.).



#### Physical State of Waste

Liquid/Sludge (Suffolk Co. DEC).

#### 3. CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Surface Impoundment (3) (User's Manual).

Method with highest score:

Surface Impoundment (3) (User's Manual).

#### 4. WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated

See: Ground Water.

Compound with highest score:

Cadmium (3) Chromium

#### 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):

See: Containment Section.

Basis of estimating and/or computing waste quantity:

See: Containment Section.

#### 5. TARGETS

#### Surface Water Use

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

None known (Suffolk County DEC).

Is there tidal influence?

No.

#### Distance to a Sensitive Environment

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

More than 2 miles (NYS DEC 1975a).

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

More than one mile (NYSDEC, 1975b).

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

More than one mile (USF & WS, 1983; NYSDEC, 1983).

#### Population Served by Surface Water

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

None (Suffolk Co., DEC).

Computation	of	land	area	irrigated	by	above-cited	intake(s)	and	conversion	to
population (1.	.5 p	eople	e per	acre):						

None.

Total population served:

None.

Name/description of nearest of above water bodies:

N/A.

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

N/A.

#### AIR ROUTE

#### I. OBSERVED RELEASE

Contaminants detected:

N/A.

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:

N/A.

Most incompatible pair of compounds:

N/A.

#### **Toxicity**

Most toxic compound:

N/A.

#### Hazardous Waste Quantity

Total quantity of hazardous waste:

See: Ground Water.

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:

<u>0 to 4 mi</u> <u>0 to 1 mi</u> <u>0 to 1/2 mi</u> <u>0 to 1/4 mi</u> +10,000

(Donnelly Marketing).

#### Distance to a Sensitive Environment

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

More than 2 miles (NYSDEC, 1975a).

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

More than I mile (NYSDEC, 1975b).

Distance to critical habitat of an endangered species, if I mile or less: More than one mile (NYSDEC, 1983).

#### Land Use

Distance to commercial/industrial area, if I 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:

Approximately 2 miles WSW to the Massapequa Reserve, (USGS Quadrangle, Amityville).

Distance to residential area, if 2 miles or less:

Less than 1,000 feet (WCC Site Survey, 1983).

Distance to agricultural land in production within past 5 years, if I mile or less: None (NYS DA&M, 1983).

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

None (NYS DA&M, 1983).

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

None. (NYSP&R, 1983).

# 2.3 EPA Form 2070-12

(Preliminary Assessment)

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

I. IDENTIFICATION				
O1 STATE	02 SITE NUMBER			
INY I	NA			

PART 1 - SITE INFORMATION AND ASSESSMENT						
II. SITE NAME AND LOCATION		······································	<del></del>			
01 SITE NAME (Legal, common, or descriptive name of alte)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
PRETERRED PlATING CORP	CUITAS	32 AllEN BOJEVARD				
03 C/TY		04 STATE 05 ZIP CODE	06 COUNTY	07 COUNTY 08 CONG		
FARMINGDALE		NY	Siffeik	CODE DIST		
09 COORDINATES LATITUDE LONG 40 42 59.0 073 2						
TAKE LONG TS LAND EXPLY EAST TO ROUTE NO South						
MAKE A LEFT OF ALLE	BIVO.	Site 12	ic first bl	oct.		
III. RESPONSIBLE PARTIES			<del></del>			
OUT OF BULLES		02 STREET (Business, melling,	residential) MA			
O3 CITY W/A		04 STATE 05 ZIP CODE	06 TELEPHONE NUMBER			
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing,	residential)	1		
NH						
NIA	÷	10 STATE 11 ZIP CODE	12 TELEPHONE NUMBER			
13 TYPE OF OWNERSHIP (Check one)  D. A. PRIVATE D. B. FEDERAL:  D. C. STATE D. C. OUNTY D. E. MUNICIPAL						
	(Agency name)	<del></del>		UNICIPAL		
F. OTHER:(Specify)		19° G. UNH	NOWN			
14 OV/NER-OPERATOR NOTIFICATION ON FILE (Check at that apply)						
□ A. RCRA 3001 DATE RECEIVED: / / □ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / □ C. NONE						
IV. CHARACTERIZATION OF POTENTIAL HAZARD						
BY ICROES AND INSTERIOR BY ICROES AND INSTRUMENTAL BY IN						
CONTR	ACTOR NAME(S): _	WOODWARD -	Clyde Coulsour	WTS INC.		
02 SITE STATUS (Checa one)	03 YEARS OF OPERATION					
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, I	<del></del>			ROMIC ACIOS		
	7k.ne			DROCHLOPIL ACID		
Alcoline Cleaser Black D.	• • •			これに		
OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION						
GROUD WATER SUPPLIES ARE THREATEUD						
		·				
V. PRIORITY ASSESSMENT						
O1 PRIORITY FOR INSPECTION (Check one. If high or madium is checked, complete Part 2 - Waste information and Part 3 - Description of Mazardous Conditions and Incidents)  □ A. HIGH □ D. NONE (Inspection required) (Inspect on time available basile) (No further action needed, complete current disposition form)						
VI. INFORMATION AVAILABLE FROM						
01 CONTACT	02 OF (Agency/Organiza					
JAMES PIMM Suffalk County DEPT OF HEALTH ! 1						
WAYNE SAUNDERS	05 AGENCY	CLYDE ON	O7 JELEPHONE NUMBER 912) タネヒーンとう8 5.14mg ノント) アン・インイン	OB DATE  OB TO THE TOTAL OF THE		
	L			J 901 1200		

Ç,	PΔ
V	ГМ

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

	1. IDENT	IFICATION
Į	01 STATE	02 SITE NUMBER
-	NY	NA

D B CORROSIVE D F. INFECTIOUS D SET LIQUID  TONS D B CORROSIVE D F. INFECTIOUS D SET LIQUID  CUBIC YARDS C. SLUDGE D D. OTHER ISPECTIOUS D D. INFECTIOUS D SET LIQUID  CUBIC YARDS C. RADIOACTIVE D G. FLAMMABLE D K. R.	OVEYL PERIOD OF MEASURE D CONCENTRATIO
C A SOUD  DE SULINAY TONS CUBIC YARDS CUBI	E LOADS  E LOADS  SALLONS  OVEYL  PEYLOD  ATION CONCENTRATION  CONCENTRATION
III. WASTETYPE  CATEGORY SUBSTANCE NAME DI GROSS AMOUNT DE UNIT OF MEASURE DE COMMENTS  (SU) SLUDGE  OLW DILY WASTE  POSSI IBLE WASTE  (SOC) SOLVENTS  OF 600, DDO 6  PSD PESTICIDES  DISPOSED OF  (OCC) DITHER ORGANIC CHEMICALS  NOC INDRIGANIC CHEMICALS  A ZS YEAR OF  (ACD) ACIDS  BAS BASES  (MES) HEAVY METALS  IV. HAZARDOUS SUBSTANCES (SOO ADDOROUS DE MOST (PRODUNTLY COORD CAS NUMBER)  DI CATEGORY DE SUBSTANCE NAME  DE ALDDINE  ALDDINE  ALDDINE  DISCHARGE  513, O  ACD SULFERICL  ACD CHROMIC  ACD CHROMIC  SLU COMPOSITION  MES CHROMIUM  MES CHROMIUM  132, OO	OVEYL PEYLOD  ATION CONCENTRATIO
CATEGORY SUBSTANCE NAME 01 GROSS AMOUNT 02 UNIT OF MEASURE 03 COMMENTS  (SLÜ) SLUDGE  OLW OILY WASTE POSSI BLE WASTE  (SOT) SOLVENTS OF 600,000 6  PSD PESTICIDES  TO 15 POSSED OF  (OCC) OTHER ORGANIC CHEMICALS  NOC MORGANIC CHEMICALS  (ACD) ACIDS  BAS BASES  (MES) HEAVY METALS  IV. HAZARDOUS SUBSTANCES (See Accenda for most frequently cred CAS Numbers)  DI CATEGORY 02 SUBSTANCE NAME 03 CAS NUMBER 04 STORAGE: DISPOSAL METHOD 05 CONCENTRA  SOL ALODINE TO 15 C. HARGE 32 35  ACD NITTALC 513,00  ACD SULFURIC 219,000  ACD CHROMIC CAPMIUM UNK  MES CHROMIUM 132,000	OVEYL PEYLOD  ATION CONCENTRATIO
SLUDGE  OW OILY WASTE  POSSIBLE WASTE  OF 600,000 (C)  PSD PESTICIDES  OTHER ORGANIC CHEMICALS  NOC INORGANIC CHEMICALS  (ACD ACIDS  BAS BASES  (MES) HEAVY METALS  DI CATEGORY  OZ SUBSTANCES (See Accepto) for most frequently cred CAS Numbers)  DI CATEGORY  OZ SUBSTANCES (See Accepto) for most frequently cred CAS Numbers)  DI CATEGORY  ALODINE  ACD NITALC  ACD NON-ETCH  ACD CHROMIC  ACD CHROMIC  ACD CHROMIC  SLU COMPOSITION  MES CHROMIUM  MES CHROMIUM  132,00	OVEYL PEYLOD  ATION CONCENTRATIO
OLW OILY WASTE  SOC) SOLVENTS  OF 600,000 G  PSD PESTICIDES  DISPOSED OF  (CC) OTHER ORGANIC CHEMICALS  ID INDRGANIC CHEMICALS	OVEYL PEYLOD  ATION CONCENTRATIO
SOT SOLVENTS  PSD PESTICIDES  DISPOSED OF  (OCC) OTHER ORGANIC CHEMICALS  NOC INORGANIC CHEMICALS  (ACD) ACIDS  BAS BASES  WES) HEAVY METALS  IV. HAZARDOUS SUBSTANCES (See Appenda No most (requently cere CAS Numbers)  DI CATEGORY  DI S SUBSTANCE NAME  O3 CAS NUMBER  D4 STORAGE:DISPOSAL METHOD  D5 CONCENTRA  D1 S CHARGE  3 Z 3 S  ACD  ALDDINE  ACD  NON-ETCH  ACD  SULFURIC  COMPOSITION  MES  CHROMIUM  13 Z, 00	OVEYL PEYLOD  ATION CONCENTRATIO
PSD PESTICIDES  OCC OTHER ORGANIC CHEMICALS  NOC INORGANIC CHEMICALS  (ACD) ACIDS  BAS BASES  (MES) HEAVY METALS  DY. HAZARDOUS SUBSTANCES (see Addressed for most frequently creed CAS Numbers)  DY CATEGORY OZ SUBSTANCE NAME O3 CAS NUMBER O4 STORAGE: DISPOSAL METHOD O5 CONCENTRA  SOL ALODINE D15 CHARGE 3 Z 3 S  ACD NITTLC 513, O  ACD NON-ETCH 60, O0:  ACD SULFURIC 219, OC  ACD CHROMIC 47, OC  SLU COMPOSITION UNK  MES CHROMIUM 132, OO	OVEYL PERIOD OF MEASURE D CONCENTRATIO
PSD PESTICIDES  OC OTHER ORGANIC CHEMICALS  OC INORGANIC CHEMICALS  (ACD) ACIDS  BAS BASES  (MES) HEAVY METALS  OV. HAZARDOUS SUBSTANCES issee Appendix for most inequentry cred CAS Numbers)  OT CATEGORY  OZ SUBSTANCE NAME  O3 CAS NUMBER  O4 STORAGE: DISPOSAL METHOD  O5 CONCENTRA  D15 CHARGE  3 Z 3 S  ACD  ALODINE  ACD  NON-ETCH  ACD  SULFURIC  ACD  CHROMIC  SLU  COMPOSITION  MES  CHROMIUM  132,000	OVEYL PERIOD OF MEASURE D CONCENTRATIO
OCC OTHER ORGANIC CHEMICALS  OC NORGANIC CHEMICALS  (ACD) ACIDS  BAS BASES  (MES) HEAVY METALS  IV. HAZARDOUS SUBSTANCES (See Addenous for most frequentity cred CAS Numbers)  IV. CATEGORY OZ SUBSTANCE NAME OJ CAS NUMBER OF STORAGE: DISPOSAL METHOD OS CONCENTRA  SOL ALODINE DISCHARGE JZJS  ACD NITZLC 513, O  ACD NON-ETCH 60, OO:  ACD SULFURIC 219, OC  ACD CHROMIC 47, OC  SLU COMPOSITION UNK  MES CHROMIUM 132, OO	TION DEMEASURE O
NOC INORGANIC CHEMICALS  (ACD) ACIDS  BAS BASES  (MES) HEAVY METALS  IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cred CAS Numbers)  IV. CATEGORY 02 SUBSTANCE NAME 03 CAS NUMBER 04 STORAGE DISPOSAL METHOD 05 CONCENTRA  SOL ALODINE DISCHARGE 3 Z 3 S  ACD NITTLIC 513, 0  ACD NON-ETCH 60, 00  ACD SULFURIC 219, 00  ACD CHROMIC 47, 00  MES CAPMIUM 132, 00	ITION OF MEASURE O
BAS BASES  (MES) HEAVY METALS  IV. HAZARDOUS SUBSTANCES (See ADDEROU FOR MOST (FROMENT) CRED CAS NUMBER)  DI CATEGORY DZ SUBSTANCE NAME D3 CAS NUMBER D4 STORAGE: DISPOSAL METHOD D5 CONCENTRA  SOL ALODINE D15 CHARGE 3 Z 3 S  ACD NITRIC 513, 0  ACD NON-ETCH 60, 00.  ACD SULFURIC 219, 00  ACD CHROMIC 47, 00  SLU COMPOSITION UNK  MES CHROMIUM 132, 00	
MES HEAVY METALS  IV. HAZARDOUS SUBSTANCES (See ADDEROU FOI MOST (FOODERT) CRED CAS NUMBER)  DI CATEGORY DZ SUBSTANCE NAME 03 CAS NUMBER DA STORAGE: DISPOSAL METHOD 05 CONCENTRA  SOL ALODINE DISCHARGE 3 Z 3 S  ACD NITALC 513, 0  ACD NON-ETCH 60, 00-  ACD SULFURIC 219, 00  ACD CHROMIC 47, 00  SLU COMPOSITION UNK  MES CHROMIUM 132, 00	
IV. HAZARDOUS SUBSTANCES (See ADDENIUS FOR CAS Numbers)  DI CATEGORY  DZ SUBSTANCE NAME  D3 CAS NUMBER  D4 STORAGE: DISPOSAL METHOD  D5 CONCENTRA  D15 CHARGE  D73 S  ACD  N1 TYLIC  ACD  NON-ETCH  ACD  SULFURIC  CHROMIC  SLU  COMPOSITION  MES  CHROMIUM  132,00	
DICATEGORY 02 SUBSTANCE NAME 03 CAS NUMBER 04 STORAGE DISPOSAL METHOD 05 CONCENTRA  SOL ALODINE DISCHARGE 3 Z 3 S  ACD NITTLIC 513, 0  ACD NON-ETCH 60, 00  ACD SULFURIC 219, 00  ACD CHROMIC 47, 00  SLU COMPOSITION UNK  MES CHROMIUM 132, 00	
SOL   ALODINE   DISCHARGE   3235     ACD   NITRIC   513,0     ACD   NON-ETCH   60,000     ACD   SULFURIC   219,00     ACD   CHROMIC   47,00     SLU   COMPOSITION	
ACD NITALC 513,0  ACD NON-ETCH 60,000  ACD SULFURIC 7219,000  ACD CHROMIC 47,000  SLU COMPOSITION 7000  MES CADMIUM 132,000	mgle
ACD NON-ETCH 60,000  ACD SULFURIC 219,00  ACD CHROMIC 47,000  SLU COMPOSITION  MES CADMIUM  IMES CHROMIUM  132,00	
ACD   NON-ETCH   60,000   ACD   SULFURIC     219,000   ACD   CHROMIC   43,000   SLU   COMPOSITION       MES   CHROMIUM   132,000	00
ACD SULFURIC 219,000 ACD CHROMIC 47,000 SLU COMPOSITION - MET CADMIUM UNK IMES CHROMIUM 132,00	0
ACD CHROMIC 47,000 SLU COMPOSITION - MES CADMIUM UNK 132,00	00
SLU COMPOSITION -  MES CAPMIUM UNK  IMES CHROMIUM 132,00	ज
MET CADMIUM UNK 132,00	
IMES CHROMIUM 132,00	
	0
	1
V. FEEDSTOCKS (See Appendix for CAS Numbers)	l
CATEGORY 01 FEEDSTOCK NAME 02 CAS NUMBER CATEGORY 01 FEEDSTOCK NAME	02 CAS NUMBER
	OZ CRS NOMBE
FDS FDS	
VI. SOURCES OF INFORMATION (Cae specific references, e.g., state (fes. sample ensiyats, reports.)	
SUFFOLK CO. DEC	

# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

	AZARDOUS CONDITIONS AND INCIDENTS
II. HAZARDOUS CONDITIONS AND INCIDENTS	
.01 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: +10,000	02 © OBSERVED (DATE: 1951-1976) POTENTIAL © ALLEGED 04 NARRATIVE DESCRIPTION
GROUND WATER CONTAMIA	ATTON HAS BEEN DETECTED IN DOWN
GRADIENT WELLS AT A	US Army BASE
01 E B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:  NO infirmation ava	02 3 OBSERVED (DATE:) DOTENTIAL EALLEGED 04 NARRATIVE DESCRIPTION  ( 14 ble (N/A)
D1 T C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 © OBSERVED (DATE:) © POTENTIAL © ALLEGED 04 NARRATIVE DESCRIPTION
N/A	
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED.	02 TOBSERVED (DATE: ) DOTENTIAL TALLEGED 04 NARRATIVE DESCRIPTION
N/A	
01 K. E. DIRECT CONTACT D3 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:
MATERIALS HAVE BEEN	SPILLED THYOUGHOUT THE SITE
01 XF. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 D OBSERVED (DATE: 1951-1976) POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION
SOIL HAS BEEN CONT LEAKING IMPOUNDMEN.	YMINATED OVER THE YEARS VIA
01 AG DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: +10,000	02 D OBSERVED (DATE:) D POTENTIAL REALLEGED 04 NARRATIVE DESCRIPTION
PUBLIC SUPPLY WELLS	ARE LOCATED DOWN GRADIENT
OF THE SITE.	
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 TO OBSERVED (DATE:) DOTENTIAL DALLEGED 04 NARRATIVE DESCRIPTION
NA	
01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) D POTENTIAL C ALLEGED 04 NARRATIVE DESCRIPTION
NA	·

**SEPA** 

### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

-WEFA	PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENT	rs NY	N/A
. HAZARDOUS CONDITI	ONS AND INCIDENTS (Continued)			
01 [] J. DAMAGE TO FLOR 04 NARRATIVE DESCRIPTION		02 D OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
: N/A	<u>.</u>		·	
01 D K. DAMAGE TO FAUL 04 NARRATIVE DESCRIPTION		02 DOBSERVED (DATE:)	POTENTIAL	D ALLEGED
N/r	} 			
D1 D L. CONTAMINATION ( 04 NARRATIVE DESCRIPTION)		02 DOBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
NA				·
01 M. UNSTABLE CONT	ouds/leaking drums)	02 D OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIA	ALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
- Ν/Α			<del></del>	
01 D. DAMAGE TO OFF. 04 NARRATIVE DESCRIPTION		02 DOBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NIA		. ·		
01 0. CONTAMINATION 04 NARRATIVE DESCRIPTK		02 DOBSERVED (DATE:)	D POTENTIAL	D ALLEGED
N/A				
01 P. ILLEGAL/UNAUTH		02 D OBSERVED (DATE: 1951-1976)	□ POTENTIAL	ALLEGED
	C OF ON-SITE		TAKEN	PLACE
oven	25 YEAR PERIO			· · · · · · · · · · · · · · · · · · ·
05 DESCRIPTION OF ANY	OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZARDS		
N/A		·		
II. TOTAL POPULATION	POTENTIALLY AFFECTED:+	10,000		
V. COMMENTS				
		com in Business	•	er ent
PROBLEM.		RIPAIR) ANE UNRI	elated th	D THE
V. SOURCES OF INFORM	AATION (Che specific references, e. g., state lies,	sample analysis, reports)		
SUFFOL	K CO. DEC	**		

Woodward-Clyde Consultants, Inc.

2.4 EPA Form 2070-13

(Site Inspection Report)

	POTE	NTIAL HAZAR	DOUS	WASTE SITE	·	L IDENTIFI		_
<b>&amp;EPA</b>	PART 1 - SITE		SITE INSPECTION REPORT LOCATION AND INSPECTION INFORMATION					
EL SITE NAME AND LOCA	TION				<del></del>			ᅱ
DI SITE NAME RAPIC OFFICER, OF S				T, ROUTE NO., OR 8		DEMTIFIER	<u> </u>	ヿ
PREFERRED -	Plating Corpor	ATES		Alles 3		. \	0700UNTY 06 CC	
FARMINDALE			NY		SIFFOI	k_		ST
OF COORDINATES  LONGITUDE  LONGITUDE  LONGITUDE  LONGITUDE  LONGITUDE  LONGITUDE  DF. OTHER  DF. OTHER  DG. UNKNOWN								
III. INSPECTION INFORMATION								
01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERAT					<u>-</u>	
08 16,83 MONTH DAY YEAR			NAMING YE	AR ENDING YEA		UNKNOWN		
DA AGENCY PERFORMING INSP					*****			
DE.STATE DESTATE	ONTRACTOR Library	O-Clyde	.⊒g.o	UNICIPAL D. D. I	(Specify)	WCTOR	(Name of Smr)	-
05 CHIEF INSPECTOR					07 ORGANIZA	TION	08 TELEPHONE NO.	╮┤
Waste R.	SAUNDERS	Project	6	EO logIST	(cy)		(2011)765-070	0
WAJNE R. S		10 TILE			11 ORGANIZA	TION	12 TELEPHONE NO.	
NIA	t	Project 10 TILE	IA		-		( )	
							( )	
							( )	
							( )	
							( )	
13 SITE REPRESENTATIVES INT		14 TITLE	-	15ADDRESS			16 TELEPHONE NO	
	out- of - Business						( )	
					<del></del> -		( )	
	·······	<del>                                     </del>					( )	
<del> </del>		<del> </del>					<b>-</b>	
·	·						( )	
							( )	
						·		
17 ACCESS GABLED BY (Choot own)  D PERASSSION  D WARRANT	18 TIME OF INSPECTION	19 WEATHER CON		CLEAR	90°F			
IV. ENFORMATION AVAIL	ABLE FROM							
D1 CONTACT		02 OF MOONTHOUSE		c / >			03 TELEPHONE NO.	,
JAMES  ON PERSON RESPONSELE FOR		05 AGENCY	100 08	COULY I	07 YELEPHON	וטריני NO.	08 DATE	
W.R. SAU	_	-	Cis	CONTRACTION CONTRACTOR	201-16	6.78 18 50700	MONTH DAY YEAR	<u>3</u>
EPA FORM 2070-13 (7-81)		•						

		₽0	TENTIAL HAZA	RDOUS WASTE	SITE	L IDENTIFICATI		
心田	n <del>S</del> EPA			TION REPORT		OT STATE 02 SITE	UJA	
A WASTE OF	TATES, QUANTITIES, AN				•			
	TATES (Chuck of their apply)	OS WASTE QUANT		03 WASTE CHARACT	EPRETICS (Check at that a		···········	
DA SOLÍA DE POMINER, PRESI DE CALIGNE DE CAS		filesours of rests quantities state to independent;  TORS		BY A TOXIC DE BOLLIE DIS COPROSIVE DIF SIFECT DIC RADIOACTIVE DIS FLAMI BY OF PERSISTENT DIN IDINTA		LE D'L HIGHLY VOLATILE NOUB D'J. EXPLOSIVE MABLE D'IL REACTIVE		
D.D. OTHER	(Reactly)	NO OF DRUMS UITKIND		1		O L. W. N	<b>5 a</b> . 10 1 7 1 <b>a</b> . 10 <b>a</b> .	
M. WASTE T	YPE				· · · · · · · · · · · · · · · · · · ·	·		
CATEGORY	BUBSTANCE N	IAME	01 GROSS AMOUNT	DZ UNIT OF MEASURE	03 COMMENTS		<del></del>	
(Erit)	SLUDGE							
DLW	OLY WASTE				POSS. SIE	CA ATE LO	LOB	
(80)	80LVENTS					an galle		
PSD	PESTICIDES							
(330)	OTHER ORGANIC CI	HEMICALS			of Wast	E DISPES	E M	
ioc	INORGANIC CHEMIC	CALS						
ACO	ACIDS				orel a	5 years pr	1416	
BAS	BASES					· · · · · · · · · · · · · · · · · · ·		
MES	HEAVY METALS				1			
IV. HAZARDO	OUS SUBSTANCES (See A	opends for float frequen	ely ched CAS Numbers)	<del></del>	<del></del>			
01 CATEGORY	02 SUBSTANCE N	<b>LAME</b>	03 CAS NUMBER	04 STORAGE/DIS		05 CONCENTRATION	DS MEAS	
50L	HODINE	·····	<u> </u>	DIXHAR	د جـ	3235	my	
ACD	MITRIC			<b></b>		513,000	179	
ALD	MON-ELCH		<u> </u>	<b></b>		60,000	no	
ACO	SULFURIL		<u> </u>	<del>                                     </del>		214,000	M	
HU	CHREMIC		<b></b>	<b></b>		43,000	m	
SLU	Composition	) 		<u> </u>				
MES	CIDMIU17		<b></b>			CINK	1	
MES	CHROMINA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1		132,000	775	
WED	Titeur		<b></b>	<b></b>	<del></del>	1640	msf	
			<del> </del>			<del> </del>	<del> </del>	
		<u> </u>	<del> </del>	<del> </del>		1	1	
			<u> </u>					
			<u> </u>	<u> </u>		<u> </u>	<u> </u>	
V. FEEDSTO	CKS /See Appendix for CAS Numb	ere)						
CATEGORY	01 FEEDSTOO	X NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS N	
			- T	1			,	

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

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

SUFFORK TOWNY DEC

## &EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L	IDENTIFICATION							
01	NATE	DZ SITE	N77+					

<b>ODY</b>	PART 3 - DESCRIPTION OF	HAZARDOUS CONDITIONS AND INCIDENTS	s
E HAZARDOUS CONDI	TIONS AND INCIDENTS		<del>.</del>
01 F. A. GROUNDWATES	R CONTAMINATION THALLY AFFECTED: \$10,000		DATOTENTIAL [] ALLEGED
GROWDWA	TER COUTHMINATUS	HAS BEEN DETECTED	IN DOWN-GRADIELT
WEUS AT	a us almy	BIVOE , ET. TOTTEU.	
01 C 8 SUFFACE WATE 03 POPULATION POTENT	R CONTAMINATION TRALLY AFFECTED:	02 DOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL D ALLEGED
		u/m	
01 C. CONTAMINATIO 03 POPULATION POTEN	IN OF AIR ITIALLY AFFECTED:	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL D ALLEGED
	,	N/H	
01 0 FRE/EXPLOSIVE 03 POPULATION POTENT	TE CONDITIONS ITIALLY AFFECTED:	02 D OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	□ POTENTIAL □ ALLEGED
ı		NIT	
		02 TO OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  THREWORLD THE	SIT &
AL ES CONTAINATE	N. AF SAN	02 D OBSERVED (DATE: FF51-F676_)	DUPOTENTIAL DIALLEGED
03 AREA POTENTIALLY	ON OF SOIL O. S. A. (DE)	04 NARRATIVE DESCRIPTION	
_	been correct	rucked over the y	
	MALLY AFFECTED: 1 10,000	<del>-</del>	D POTENTIAL ID-ACLEGED
Public 5.	ppy wens, o	me localed demogra	dend out
01 (I) H. WORKER EXPO 03 WORKERS POTENTIA		02   OBSERVED (DATE:	☐ POTENTIAL ☐ ALLEGED
	,	1/17	
01 DI. POPULATION EX 03 POPULATION POTEN		02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL D ALLEGED
		6/12	

	POTENTIAL HAZARDOUS WASTE SITE		L DENTIFICATION		
<b>SEPA</b>	DI STATE OF ST	A 72			
PARTS-D	ESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	177	14/71		
AL HAZARDOUS CONDITIONS AND IN	CIDENTS (Common)				
1 D J. DAMAGE TO FLORA 51 NARRATRIE DESCRIPTION	02 D OBGERVED (DATE:)	D POTENTAL	D ALLEGED		
<b>1</b>	N/A				
01 D.K. DAMAGE TO FAUNA 04 NAPRATIVE DESCRIPTION (ROCARD REPORTE)	02   08SERVED (DATE:)	D POTENTIAL	□ ALLEGED		
1 D L CONTAMINATION OF FOOD CHAR 4 NARRATIVE DESCRIPTION		D POTENTIAL	□ ALLEGED		
01 DM. UNSTABLE CONTAINMENT OF W Roth Randi Standing Hands, Lesting drums 03 POPULATION POTENTIALLY AFFECTED	0	D POTENTIAL	□ ALLEGED		
01 D. N. DAMAGE TO OFFSITE PROPERT 04 NARRATIVE DESCRIPTION	Y 02 D OBSERVED (DATE:)	D POTENTIAL	D ALLEGED		
D1 D O. CONTAMINATION OF SEWERS, S 04 NARRATIVE DESCRIPTION	STORM DRAINS, WWTPs 02   OBSERVED (DATE:)  \( \mathcal{L} / \beta \)	[] POTENTIAL	D ALLEGED		
L ,	of ou-site multiples has taken		D ALLEGED		
05 DESCRIPTION OF ANY OTHER KNOW		<del></del>			
•	JA				
M. TOTAL POPULATION POTENTIALL	Y AFFECTED: +10 occ				
IV. COMMENTS		<del></del>			
	ed Dielly is no longer in busine.				
NEW OPERATIONS A	THE S.TE (AUTO REPAIR) ARE	433ない !	160		
V. SOURCES OF INFORMATION (Co. 40)	ocific references, e.g., state flos, comple enalyses, reports;	-1	·		
Sufferk Could	DEC.		•		

I. WENT	FICATION
01 STATE	02 SITE NUMBER
1~1	N/C

<b>€FPA</b>			_	S WASTE SITE	<u>P</u>	1 STATE 02 S/TEINUMBER
<b>WEFA</b>	PART 4 - PERMIT AND DESCRIPTIVE INFORMATION					
IL PERMIT INFORMATION	<del></del>					
01 TYPE OF PERMIT ISSUED (Check of that apply)	02 PERMIT NUMBER	03 DATE R	SUED	D4 EXPIRATION DATE	05 COMMENTS	
DA MPDES		1				
□ 6. UC		1				
DC. AR		1				
D.B. RCRA					·	
DE. NCRA INTERIM STATUS		1		<del> </del>		
D.F. SPCC PLAN	<u> </u>	<del>                                     </del>				
BG. STATE (Specify) SPDES		614	175		FIRM IS	CUT-07-BUSIURSS
H. LOCAL (Specify)		1				
□ I. OTHER (Specify)		1				
DJ. NONE	<del></del>	1		<del></del>	·	
III. SITE DESCRIPTION	<u> </u>	4			<u> </u>	
	AMOUNT 03 UNIT OF	MEASURE	O4 TF	REATMENT (Check all their a	pply)	05 OTHER
(17 A. SURFACE IMPOUNDMENT			п.	INCENERATION		
D B. PILES			-	UNDERGROUND INJ	ECTION	EP A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND	<del></del>			CHEMICAL/PHYSICA		
@10. TANK, ABOVE GROUND	<del></del>		ס 🗆.	BIOLOGICAL		
E. TANK, BELOW GROUND	<del></del>		□ E.	WASTE OIL PROCES	SING	06 AREA OF SITE
D F. LANDFILL	<del></del>			SOLVENT RECOVER		0.50 (Acres)
G. LANDFARM				OTHER RECYCLING	RECOVERY	(Acres)
☐ H. OPEN DUMP			□ Ħ.	OTHER	pcdy)	
(Specify) Se	Carsageni 3	we	l			
5.1e just.tike appende k			014	C 196710JS	6-1	NET
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (CHOCA 000)	☐ B. MODERATE	Œ C.₽	IADEQI	UATE, POOR	D. INSECUF	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BAI						
The lagores	as 5.16	-	had	Fa. les	livers	0-6
Some chales a	en probe	19	de	schused	to o	CESSpoolis),
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: 1 YES 02 COMMENTS 5:UC = has VARUU NEW BLOS	chaused ross.				n Was	is business
VL SOURCES OF INFORMATION (Can appear						
Sitholk County	DEC, W	CC	IL	sporios		

&EPA	POTE PART 5 - WATER	ENTIAL HAZAR BITE INSPECT DEMOGRAPHI	TON REPO	RT	_		ONTERCATION  ATE 02 SITE MARGER
E DRINKING WATER SUPPLY							
O1 TYPE OF DIBBONG SUPPLY		OR STATUS	····			Œ	SESTANCE TO SITE
(Check in applicable) -1 SURFAC	E WELL /	ENDANGETE	D AFFECT	ED B	MONITORED	]	
COMMUNITY A. D.	<b>0. D</b>	A B	8.0		C. D	<b>^</b>	0.25
HON-COMMUNITY C. [	<b>D</b> . 🖸	<b>D</b> . D	€. □		F. D		(mi)
IL GROUNDWATER  11 GROUNDWATER USE IN VICINITY (CH	et ene)				<del></del>		
C) A. ONLY BOURCE FOR DRINKING BY B. DRINKING (CHAP BOURDS BY BOUR							
02 POPULATION SERVED BY GROUND V	4 10,000)	_	03 DISTANCE T	O NEATES	T DRINKING WATER	METT	0.25 (mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	DUNDWATER FLOW	OS DEPTH TO A		07 POTENTIAL YEL	TD.	08 SOLE SOURCE ADUFER
± 15 m	55	E	0.0			<b>(god</b> )	□ YES 12110
09 DESCRIPTION OF WELLS (motions) una	ige, depth, and location relative to	population and buildings)			L		4
Varies Muscy distances beto	nel 5-pp1	g and 3	m.b.	La	and e	<i>‡</i> 5:	4.
O RECHARGE AREA			11 DISCHARGE				
DIVES COMMENTS			□ YES C	OMMENT	rs		
□ NO							
V. SURFACE WATER							
DI SURFACE WATER USE (Check one)  LI A. RESERVOIR, RECREATION DIRINKING WATER SOURCE		IN, ECONOMICALLY NT RESOURCES	□ c.∞	MMERCU	AL, INDUSTRIAL	ø	D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED NAME:	BODIES OF WATER		<del> </del>		AFFECTE		DISTANCE TO SITE
Nove						_	(mi)
						_	(mi)
							(mi)
V. DEMOGRAPHIC AND PROPE 01 TOTAL POPULATION WITHIN	RTY INFORMATION	<del></del>	<del></del>	Total	DISTANCE TO NEAF	F 57 POP	LD ATION
	TWO (2) ME SO OF DOT	Tuber #	B) MILES OF ST	1			_
A. + 10 G(I() NO OF PERSONS	B. + 1C, G.:n No. of Persons		+ 10,000			0. a	<u>5(mi)</u>
DIS NUMBER OF BUILDINGS WITHIN TWO	(2) MILES OF SITE		04 DISTANCE 1	TO NEARE!	ST OFF-SITE BUILDIN		
Acjaced Lesidences.		• •					<u>.</u>

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## **POTENTIAL HAZARDOUS WASTE SITE**

I. IDENTIFICATION				
01 STATE	02 SITE NUMBER			

<b>SEPA</b>	SITE INSPECTION RE PART 5 - WATER, DEMOGRAPHIC, AND E	1 1 K!//L
VI. ENVIRONMENTAL INFORMA	TION	
01 PERMEABILITY OF UNSATURATED 2		
	8 cm/sec	10-3 om/sec IPD. GREATER THAN 10-3 om/sec
02 PERMEABILITY OF BEDROCK (Check		
A. IMPERA	AEABLE D.B. RELATIVELY IMPERMEABLE D.C. R 10 <sup>-6</sup> on/sec) (10 <sup>-4</sup> - 10 <sup>-6</sup> on/sec) (1	ELATIVELY PERMEABLE 0. VERY PERMEABLE 0-2 - 10-4 anvisec) (Greater than 10-2 anvisec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
+ 1000 (m)	UNKROWN (m)	UNICHOUM
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL 08 SLOPE SITE SI	OPE   DIRECTION OF SITE SLOPE   TERRAIN AVERAGE SLOPE
(in)	2.7 (in) <u>∠3</u>	\ Sount \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
SITE IS IN W/D YEAR FLO	DOOPLAIN	COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre miner		E TO CRITICAL HABITAT (of endangered species)
ESTUARINE	OTHER	(mi)
A. > 2.0 (mi)	B(mi) EN	DANGERED SPECIES:(mi)
13 LAND USE IN VICINITY		
DISTANCE TO: COMMERCIAL/INDUSTR	RESIDENTIAL AREAS; NATIONAL/STATE	
A(mi)	B. <u>LO.25</u> (mi)	C(mi) D(mi)
14 DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOGRAPHY	
	gerandy Flat.	·
]	•	
ļ		
Ì		
VII COMPOSE OF INSCORMAN	N a	
	N (Cre specific references, e.g., state fles, sample analysis, reports)	
WCC INSpeci	1565 Reports.	Gu d.
Wec Files, U	1365 Reports.	•
	•	<u>.</u>

& EPA	:	OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT AT 8 - SAMPLE AND FIELD INFORMATION	L IDENTIFICATION D1 STATE D2 SITE NUMBER NAME NOT THE PROPERTY OF THE PROPERTY		
R SAMPLES TAKEN			•		
BAMPLE TYPE	OI NUMBER OF SAMPLES TAKEN	02 SAMPLES MENT TO	···	DO ESTIMATED DATE PESSETS AVAILABLE	
SHOUND INVIER	720	Sillalk Coup DEC		51-76	
BUNFACE BRATER		0			
WASTE	720	SIGIL Cong DEC		51-76	
AR					
RUNOFF					
<b>SPILL</b>					
80f					
VEGETATION					
OTHER					
M. FIELD MEASUREMENTS TA	KEN				
1 TYPE	02 COMMENTS				
IV. PHOTOGRAPHS AND MAPS					
DI TYPE DISPOUND DI AERIAL	·	02 IN CUSTOON OF Wardend - Oyde Cou	witherto		
D3 MAPS 04 LOCATION  BYYES 5/0	Wilk County	DEC			
V. OTHER FIELD DATA COLLE	CTED (Provide necrative deel	cription)			
4					
VL SOURCES OF INFORMATIO	M (Che apacific references, e.	g., state lites, bomph endysts, reports)			
SIFINE	Cary Di	EC			

<b>⊕EPA</b>	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION			L IDENTIFIC 01 STATE 02	
IL CURRENT OWNER(S)			PARENT COMPANY (# appleouth)		
DI NAME UNENDEN		02 D+8 NUMBER	DB NAME		9 D+B NUMBER
DS STREET ADDRESS (P.O. Bus. RFD P. acc.)		04 SIC CODE	10 STREET ADORESS (P.O. Box, RFD P. etc.)		11 SIC CODE
os crity	06 STATE	07 ZIP COD€	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	OB NAME		09 D+B NUMBER
D3 STREET ADDRESS (P.O. Box, MFD #, etc.)	<u></u>	04 SIC CODE	10 STREET ADORESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
O1 NAME		02 D+B NUMBER	OB NAME	······································	9 D+B NUMBER
03 STREET ADDRESS (P.O. Bos. RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #. etc.)	<u> </u>	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
O1 NAME	<u> </u>	02 D+B NUMBER	DB NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<del> </del>	04 SIC CODE	10 STREET ADDRESS (P.O Box, RFD P. atc.)		11 SIC CODE
05 CATY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (Last most recent first)	I	L	IV. REALTY OWNER(S) IN applicable. In	et most recent first)	
OI NAME Prefaced Plating 03 STREET ADDRESS (P.O. BOLL AFD P. MC.)		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O BOL, MFD P. BC.)  34 ALLEU BLVD  05 CITY		04 SIC CODE	O3 STREET ADDRESS (P.O. Box, RFD #, etc.)	,	04 SIC CODE
osan Farming dale	NY	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
O1 NAME		02 D+B NUMBER	01 NAME		02 0+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD 4, etc.)		04 SIC CODE
05 CITY	OB STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
O1 NAME	<del></del>	02 D+8 NUMBER	O1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<u></u>	04 SIC CODE
oscity	08 STATE	07 ZIP CODE	os arry	O6 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Can specifi	c references,	e.g., state fles, sample analys	Eds, reports)		
Sillolk Coul					

<b>≎EP</b> A	,	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT			L EDENTIFICATION  O1 STATE 02 SITE NUMBER  A		
	PART 8- OPEN			ATOR INFORMATION			
& CURRENT OPERATO	A Post / Short			OPERATOR'S PARENT COMPAN	<b>Y</b> Y #4444		
Alo R	Pepous (AE	J) (	22 D+8 MLMBER	10 NAME		1 D+B NUMBER	
32 #AllFU	E. 850 F. etc. 1		04 BIC CODE	12 STREET ADDRESS (P.O. Box, 8PO F, etc.)		13 SIC CODE	
OS CITY  FARMING CL.  OS YEARS OF CHERATION	6	OG STATE	OT ZIP CODE	14 CITY	18 STATE	16 ZIP CODE	
08 YEARS OF OPERATION  1 - 2	OO NAME OF OWNER	and					
M. PREVIOUS OPERAT	OR(S) (Let most recost to	nc. provide coly	I dillurati from caner)	PREVIOUS OPERATORS' PARE	NT COMPANIES #	objectori)	
OT NAME  PREFERED  DISTREET ADDRESS (P.O. A)	P) 49~	C	02 D+8 NUMBER	10 NAME		11 D+B NUMBER	
32 Allen		<del></del>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, NFD P. etc.)		13 SIC CODE	
Farmingo		OG STATE	07 <b>23P CODE</b>	14 CITY	15 STATE	18 ZIP CODE	
OB YEARS OF OPERATION	DO NAME OF OWNER!	URING THIS			<del></del>		
a 5 OI NAME	MR.		D2 D+ B NUMBER	10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. 80	s, NFD F, esc.)	1	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD F, etc.)		13 SIC CODE	
D6 CITY		06 STATE	07 ZIP CODE	14 OTY	15 STATE	16 ZIP CODE	
DB YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	PERIOD			·	
O1 NAME	<u> </u>		02 D+B HUMBER	10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. au	s., RFD 0 , ess.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RPD F, etc.,	)	13 SIC CODE	
OS CATY		06 STATE	07 ZP CODE	14 OTY	18 STATE	15 ZIP CODE	
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	PENIOD				
IV. SOURCES OF INFO	RMATION (City special	c references, a	g., ature Res, ecropia analys	is. reports/			
Suffolk	County	DE	C				
	_						
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0.554	POTENTIAL HAZARDOUS WASTE SITE					
<b>\$EPA</b>			SITE INSPE	CTION REPORT RANSPORTER INFORMATION	OI STATE 02	SITE NUMBER
IL ON-SITE GENERATOR						
01 NAME		02 D-	+B NUMBER	1		
	ļ					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<del></del>	$\overline{}$	04 SIC CODE	7		
· · · · · · · · · · · · · · · · · · ·			! 			
os atr	06 STATE	07 Z	P CODE			
	1			1		
HI. OFF-SITE GENERATOR(S)		12-	I the war are	Touris		
01 NAME	_ <del></del>	05 0	+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		1	04 SIC CODE	D3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
(F.U BOX, REUF, MC.)		1		reserve on (r.o. sox, NPD #, etc.)		
05 CATY	06 STATE	07 Z	P CODE	OS CITY	06 STATE	07 ZIP CODE
		١				_
O1 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 Z	IP CODE	05 CITY	06 STATE	07 ZIP CODE
			-			<u> </u>
IV. TRANSPORTER(S)						
01 NAME		02 D	+B NUMBER	D1 NAME		02 D+B NUMBER
		<u></u>	0.000			L
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		]	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE
DE CITY	The next	30-	# CODE	05 000		07 ZIP CODE
05 CITY	D6 STATE	-107 Z		OS CITY	JOSTATE	_ ~~
01 NAME		02 0	)+B NUMBER	01 NAME		02 D+B NUMBER
		1	, a created 1			1
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		Т-	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<del></del>	04 SIC CODE
05 CITY	06 STATE	107 Z	IP CODE	05 CITY	D6 STATE	07 ZIP CODE
	1	1			1	
V. SOURCES OF INFORMATION (Can spec	cinc references		tre files, semple enable.	. гврогіз)		
	K 88.	٠ 41		<u> </u>	··· <del>··</del>	
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; 						•
·				·		
EPA FORM 2070-13 (7-81)						<u></u>

-0	POTENTIAL HAZARDOUS WASTE SITE		L IDENTIFICATION
6EPA	SITE INSPECTION REPORT  SART 10 - PAST RESPONSE ACTIVITIES		O1 STATE 02 SITE NAMES.
E PAST RESPONSE ACTIVITIES			
01 D.A. WATER SUPPLY CLOSED 04 DESIGNATION	02 DATE	03 AGENCY	·
O1   IL TEMPORARY WATER SUPPLY PROVE 04 DESCRIPTION	DED 02 DATE	03 AGENCY	
01 D.C. PERMANENT WATER SUPPLY PROVE 04 DESCRIPTION	DED 62 DATE	03 AGENCY	
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D.E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D F. WASTE REPACKAGED 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 G WASTE DISPOSED ELSEWHERE 04.DESCRIPTION	62 DATE	03 AGENCY	
01 D H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 B'. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION VALUES CHEM			Supreix Co. DEC
101 D.J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D L ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DM. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D Q. EXERGENCY DIXING/SURFACE WATE 04 DESCRIPTION	ER DIVERSION 02 DATE	03 AGENCY	
01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D Q. BUBSURFACE CUTOFF WALL 04 DESCREPTION	O2 DATE	D3 AGENCY	
PAFORM 2070-13(7-81)		· <del></del>	

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1	PAST	RES	PON

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

LINEN				-
O1 STATE	02	SITE	NJA	(BEP
NV	ŀ	- 1	<b>)</b> /	1
	_		$\sim 1$	Il

	PART 10 - PAST RESPONSE ACTIVITIES	V/T
II PAST RESPONSE ACTIVITIES (Commund)		
01 D R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
B1 D S. CAPPING/COVERING	02 DATE	03 AGENCY
(MA DESCRIPTION	VE MAILE	w new i
a 6- ·	02 DATE	03 AGENCY
01: ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION	UZ DATE	W AGENCY
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D V. BOTTOM SEALED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 DW. GAS CONTROL 04 DESCRIPTION	02 DATE	D3 AGENCY
01 D X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D Y LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01   Z. AREA EVACUATED  04 DESCRIPTION	02 DATE	03 AGENCY
01   1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01   2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01   3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
•		

ML SOURCES OF INFORMATION (City specific references, e.g., state files, earnple analysis, reports)

£	日	A

### SITE INSPECTION REPORT **PART 11 - ENFORCEMENT INFORMATION**

L DENTIFICATION 01 STATE 02 SITE MANDER

PAST REGULATORY/ENFORCEMENT ACTION IZ VES DI NO

DEBCRETECH OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Various regulating actions one various years.

Sittalk county DEC FILES

3.0 SITE HISTORY

Preferred Plating Corporation was operated at the Allen Boulevard site from 1951 to 1976 when the firm filed for bankruptcy. The firm was owned by Mr. J. Young of the same address. A SPDES permit was filed for by Preferred Plating in June, 1975 but never was in compliance fully with the terms and conditions of the permit.

Preferred Plating Corporation previously (prior to filing for bankruptcy) treated metal ports to increase corrosion resistance and provide a cohesive base for painting to improve appearance. Since 1953 various discharges of waste materials through surface impoundments and leaching pits to the ground water environment have been documented. In addition, some surface discharges of hazardous wastes were also documented.

Various court actions through the years have been instituted by the Suffolk County Department of Health dealing with the upgrading of on site treatment facilities. None of the court mandated compliances regarding the treatment facilities were accomplished. In the year 1976 the company filed for bankruptcy.

The following products were utilized at the site during its operations:

Alo	dine	

Alkaline Cleaner

Nitric Acid

Black Dye

Phosphate

Dichromate

Non-Etch Acids

Cadmium

Hydrochloric Acid

**Caustics** 

Chromic Acids

Nickel

Analysis performed by the Suffolk County Department of Health and the U.S. Army (Ft.Totten) revealed that ground water contaminaton was attributed to the site.

4.0 SITE DATA

#### 4.1 Site Area Surface Features

The former Preferred Plating site is located approximately 6,000 feet east of on unnamed (intermittent) tributary of Massapequa Creek (Figure I). The elevation at this site is approximately 55 feet above sealevel, with a slope of less than 3% to the south. There is no designated NY State Significant Habitat (NYSDEC, Division of Fish and Wildlife, 1983), agricultural land (NYS, Division of Agriculture and Markets, 1983), nor historic or landmark soles (NYS Porks and Recreation, 1983) affected or potentially affected by the former site.

The predominate land use in the Immediate vicinity is light industrial, with the closest building located within 15 feet of the site. Mill Lane Junior High School is located approximately 2,000 feet west of the site but the site does not appear to have any impact upon it. The nearest residential area is approximately 300 to 500 feet south of the site. It is estimated that 250 to 500 dwellings occur within a 1/4 mile radius of the site.

#### 4.2 Site Hydrogeology

4.2.1 <u>Ground Water Occurrence</u>. Ground water below the site occurs in unconsolidated sediments of Recent, Pleistocene, and Cretaceous age. An engineering report by Donnelly Engineering, (1974) reveals that the site is underlain by permeable sands and gravels. The depth to the unconfined ground water table is approximately 15 feet (Ground Water Contour Map, Suffolk County Department of Health).

These materials are believed to include recent shoreline deposits, alluvium, and fill, overlying a complex sequence of Pleistocene outwash deposits of sand and gravel and ground moraine deposits of sandy gravely clay and silt. (Upson, 1955). Together they form one of two major water-bearing units in the site area. This "principal aquifer" as defined by Isbister (1966) includes all beds overlying the Upper Cretaceous clay member of the Raritan Formation. In the site area, this includes only the upper glacial deposits. The Magothy Formation, which underlies much of Long Island, has been eroded, and the glacial deposits are believed to fill a buried channel. (Isbister, 1966; Kilburn, 1979). The glacial deposits are believed to be hydraulically connected to the Magothy aquifer to the south and east.

The upper glacial deposits at the site overlie the clay member of the Raritan Formation at an estimated depth of 150 feet (Isbister, 1966). This contact is erosional and is irregular in the site area. The clay overlies and confines the Lloyd Sand Member of the Raritan Formation, which constitutes the deep confined aquifer in the site region. The Lloyd Sand consists of stratified beds of sand, gravel, sandy clay, silt, and clay (Franke and McClymonds, 1972; Isbister, 1966). It is a productive aquifer in Nassau and Suffolk Counties. The Lloyd Sand overlies Precambrian rock at the site at an estimated depth of 400 feet (Franke and McClymonds, 1971; Kilburn, 1979). The bedrock surface dips approximately 60 feet per mile to the southeast, as do the overlying Cretaceous sediments.

Ground water in the upper glacial aquifer underlying the site is under water table conditions at higher elevations but becomes confined with depth due to interbedded clay and silt layers. Flow between the upper glacial aquifer and the deep confined aquifer is retarded by the intervening clay member of the Raritan Formation. Recharge to the deep aquifer is by slow leakage down through overlying materials (Kilburn, 1979).

Ground water at the site was encountered in most borings at depths of 25 to 30 feet. However, some borings were dry to 60 feet (Slacke, 1981), suggesting a perched water table. Perched water tables are common in this area of Suffolk County, but because of the area's variable stratigraphy, the elevation of the ground water table may also show significant variation over short distances (Isbister, 1966).

Regional ground water flow in both the principal aquifer and the deep confined aquifer is to the northwest (Franke and McClymonds, 1972). Local ground water flow is probably south-southeast and is reflective of regional topography.

4.2.2. Ground Water Quality. Ground water quality in Suffolk County is generally good, typically containing less than 100 ppm dissolved solids. Local salt water encroachment has been reported in the shallow aquifer near the north shore (Isbister, 1966) but has not been confirmed in the site area. The salt water front in the deep confined aquifer is believed to have stabilized 1 to 1.5 miles off shore. Locally high nitrate concentrations have also been reported in both the shallow aquifer and the deep confined aquifer in Suffolk County. The primary source for this nitrate contamination is believed to be septic systems, particularly cesspools, with some contribution from chemical fertilizers (Myott, 1980). Glenn Cove is one of the few sewered communities in Suffolk County (Isbister, 1966).

#### 4.2.3 Ground Water Use.

Numerous wells are located both up and downgradient of the site, including an on site well. North of the site, Republic Aviation Corporation has 10 wells, the Suffolk County Water Authority District has 6 wells, and 6 industrial wells are reported in the area. All of the aforementioned wells ore within 3 miles of the site.

The majority of these wells ore completed in, and drawing water from the upper glacial aquifer or the Magothy aquifer (Kilburn, 1982).

The on site well and a well at the U.S. Army installation downgradient has been allegedly contaminated with the site activies of Preferred Plating.

### 4.3 Past Sampling Activities

From 1955 to 1976 the Suffolk County Department of Health has completed numerous analytical test both on waste materials and ground water both on and off site. Five (5) major contaminants were identified by the Suffolk County Department of Health, January 2, 1975 these were copper, chromium cadmium, hexavalent chromium and cyanide. All of these products were also detected in discharges by Preferred Plating. Available analytical results are included in Appendix B.

The on site well approximately 80 feet deep hod become contaminated by wastes generated at the site and disposed via leaching beds. The on site well was taken out of services and bottled water was utilized for employees.

The samples taken on site have revealed that subsurface soils and ground water have been contaminated above acceptable county, state, and federal standards.

There has been no reported testing of air quality at this site.

5.0 DATA ADEQUACY

Existing available data were adequate for HRS scoring of the Preferred Plating Corp. site. The Suffolk County DEC files provided much useful site specific information. The WCC site survey was also very helpful in providing data on the site vicinity.

With a score of 58.41, the Ground Water route is the route of major concern. Documented data on an observed release to ground water from the Suffolk County DEC (1975) serves to elevate this route score. Although existing data for the Surface Water route is adequate and complete, this route achieved a score of only 0.0.

6.0 WORK PLAN

#### 6.1 Objective

The objectives of this proposed work plan are to collect additional field information required to adequately define the extent of contamination and to prepare conceptual remedial action plans. This work plan will primarily address questions concerning soil contamination, ground water flow and quality. The analysis of wastes and ground water samples previously indicate that a potential health hazard exists downgradient and at the site.

#### 6.2 Field Investigation Plan

6.2.1 Geophysical Studies. As part of the on site field investigation to characterize the hydrologic regime and waste location, a geophysical survey utilizing the Geonics EM 31 Terrain Conductivity Meter will be conducted. This technique has been utilized successfully to locate similar contaminant plumes and waste locations. Since the site is in a highly urbanized environment and surface site conditions (new buildings) have changed since Preferred Plating stopped operating, the scope of the survey would be limited.

Measurement should be attempted both north and south of the site along open unobstricted areas. Subsurface utility lines would have to be mapped or reviewed to insure proper interpretation of data.

It is anticipated that a two person team would conduct the survey in one day. Readings would be token with the coils in the vertical mode yielding a effective depth of exploration of 6 meters (19.7 feet). It is anticipated that measurement stations would be on a maximum of 20 feet centers with the

recorded data plotted on maps and interpreted. The maps will be useful in locating the ground water monitoring wells.

#### 6.2.2 Monitoring Wells

6.2.2.1 <u>Installation</u>. 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 a minimum of five monitoring wells be installed at the site, at the approximate locations indicated on Figure 2. The depth of the wells will be 20 feet into the saturated zone of the upper aquifer. The total approximate depth will be 35-45 feet. The screened length of the casing will be a minimum of 5 feet above and 10 feet below the static ground water level yielding a total of 15 feet screened interval.

The installation of the wells will be advanced through the overburden by 6-inch I.D. hollow stem augers or driven casing, with continuous split spoon sampling in the upper 10 feet and at 5 foot intervals thereafter. Soil samples will be classified in the field by a geologist or soil scientist.

Slotted 3-inch I.D. PVC well screen will be installed over 15 foot intervals in each well. Wells will be installed flush with the existing ground surface for logistical concerns (access by vehicles). A gravel pack will be completed to approximately 2 feet above the top of the screen, where a I 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 protective steel casing will be installed. After installation the wells will be developed by pumping, to remove any fine grained material.

It is estimated that six days will be required to drill and develop the monitoring wells.

6.2.2.2 <u>Water Elevation</u>. Ground water depths will be measured at the time of well development and again a the time of pumping. Water elevations, measured relative to a datum established at the site, will be plotted and used to develop contours of the ground water table. Based on this map, the direction(s) of ground water flow will be estimated. Flow and gradient data will be fundamental input in quantifying site conditions and will be compared to plume geometries inferred from geophysical survey data.

It is anticipated that a two person crew will require one day to survey ground elevations at the site.

6.2.2.3 Aquifer Testing. "Slug"-type permeability tests will be conducted in each newly installed well to evaluate the permeability 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. To be provided by NYDEC.
- 6.2.3.2 <u>Sample Parameters</u>. Previous analysis of waste materials and ground water at the site indicate contamination with heavy metals (i.e. chromium, copper, nickel, cadmium). Laboratory analysis will be limited to those metals previously identified by the Suffolk County Health Department. Samples will be collected from ground water and soils. Sample types and parameters are summarized in Table 6-1.
- 6.2.3.3 <u>Sampling Locations</u>. One water sample and one soil sample from each of the ground water monitoring wells will be analyzed. Results of each pair of analyses will be compared to evaluate 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 contamination plumes.

6.3 <u>Health and Safety Plan.</u>
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. These costs may be impacted by the sampling and analysis plan or health and safety plan to be supplied by NYSDEC. Costs have been grouped by task, and estimated cost for Phase II investigations on the Preferred Plating site is \$17,095.

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

at each
from zone.
1

TABLE 6-2. GEOPHYSICAL STUDIES COSTS.

			Estimated Cost	Total Estimated Cost	
<ul><li>Direct Material</li><li>a. Purchased Parts</li><li>b. Subcontract Items</li><li>c. Other</li></ul>					
2. Material Overhead	Estimated Hours	Rate/ Hour			
3. Direct Labor Senior Staff Engineer/ Geologist/Scientist	24	12.62	303		
		Total Dir	ect Labor	\$ 303	
4. Labor Overhead	O H Rate	X Base			
Labor Overhead	120%	303	363		
	To	otal Labor	Overhead	\$ 363	
5. Special Testing					
6. Special Equipment - Ter	rain Conductiv	vity Equipr	ment	\$ 140	
7. Travel a. Transportation			30		
8. Consultants		То	tal Travel	\$ 30	
9. Other Direct Costs					
10.	Total Direct	Costs and	Overhead	\$ 836	
11. General and Administrat (rate 15% of Cost Elem		, 4, 7, 9)		\$ 104	
12. Royalties				-	
13.			Sub Total	\$ 940	
14. Fee 15.	Т	otal Estim	85 ated Cost	\$ 1,025	

TABLE 6-3. DRILLING/WELL INSTALLATION COSTS.

				_ Total
			Estimated Cost	Estimated Cost
Direct Material     Purchased Parts				
<ul><li>b. Subcontract Items</li><li>c. Other</li></ul>			\$ 4,880	
2. Material Overhead	To	otal Direct	Material	\$ 4,880
2. Marerial Overneud	Estimated Hours	Rate/ Hour		
3. Direct Labor Senior Staff Engineer/				
Geologist/Scientist	60	12.62	752	
		Total Dir	ect Labor	\$ 752
4. Labor Overhead	O H Rate	X Base		
Labor Overhead	120%	752	909	
5. Special Testing	, To	otal Labor	Overhead	\$ 909
6. Special Equipment Slug Test Euipment	200			
	Tota	l Special I	Equipme <b>nt</b>	\$ 200
7. Travel a. Transportation b. Subsistence			30 360	• · · · · · · · · · · · · · · · · · · ·
	•	То	tal Travel	\$ 390
8. Consultants			<del>,</del>	•
9. Other Direct Costs				
10.	Total Direct	Costs and	Overhead	\$ 7,131
11. General and Administrat (rate 15% of Cost Elem		, 4, 7, 9)		\$ 1,040
12. Royalties				-
<b>13.</b> 13.			Sub Total	\$ 8,171
14. Fee 15.	Т	otal Estim	735 ated Cost	\$ 8,906

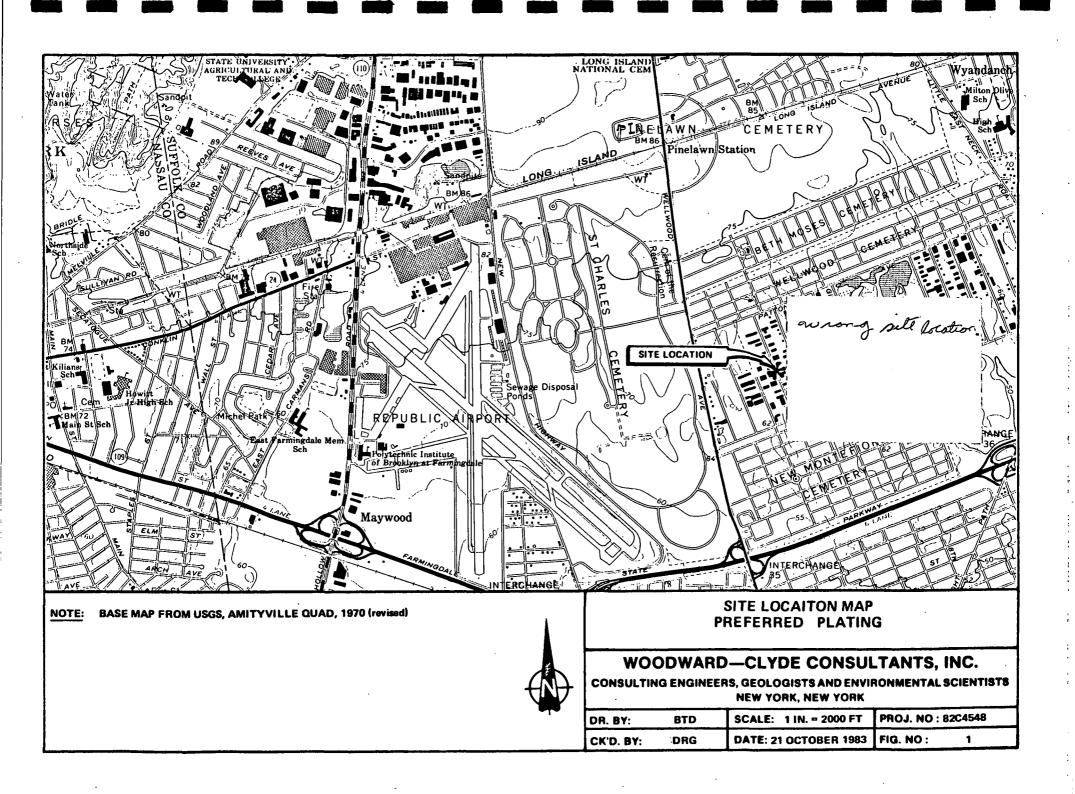
		<del></del>		
I. Direct Material			Estimated Cost	Total Estimated Cost
a. Purchased Parts b. Subcontract Items c. Other			\$ 900	
2 44 45 151 Occuberd	Tot	al Direct	Materials	\$ 900
2. Material Overhead	Estimated Hours	Rote/ Hour		
3. Direct Labor Staff Engineer/				
Geologist/Scientist	12	12.62	151	
		Total Di	rect Labor	\$ 151
/ Lahar Overhand	O H Rate	X Bose		
<ol><li>Labor Overhead Labor Overhead</li></ol>	120%	151	181	
	, To	tal Labor	Overhead	\$ 181
5. Special Testing				\$1,456
6. Special Equipment - Pump	os, Bailers			\$ 100
7. Travel a. Transportation b. Subsistence			30 60	
8. Consultants		To	otal Travel	\$ 90
9. Other Direct Costs Sample Shipment				250
	Total	Other Di	rect Costs	\$ 250
10. Total Direct Costs and Overhead			\$3,128	
11. General and Administrative Expense (rote 15% of Cost Element No's. 1, 3, 4, 7, 9)			\$ 236	
12. Royalties		•		-
13.	•	•	Sub Total	\$3,364
14. Fee 15.	т. Т	otal Estin	303 nated Cost	\$3 <b>,</b> 667

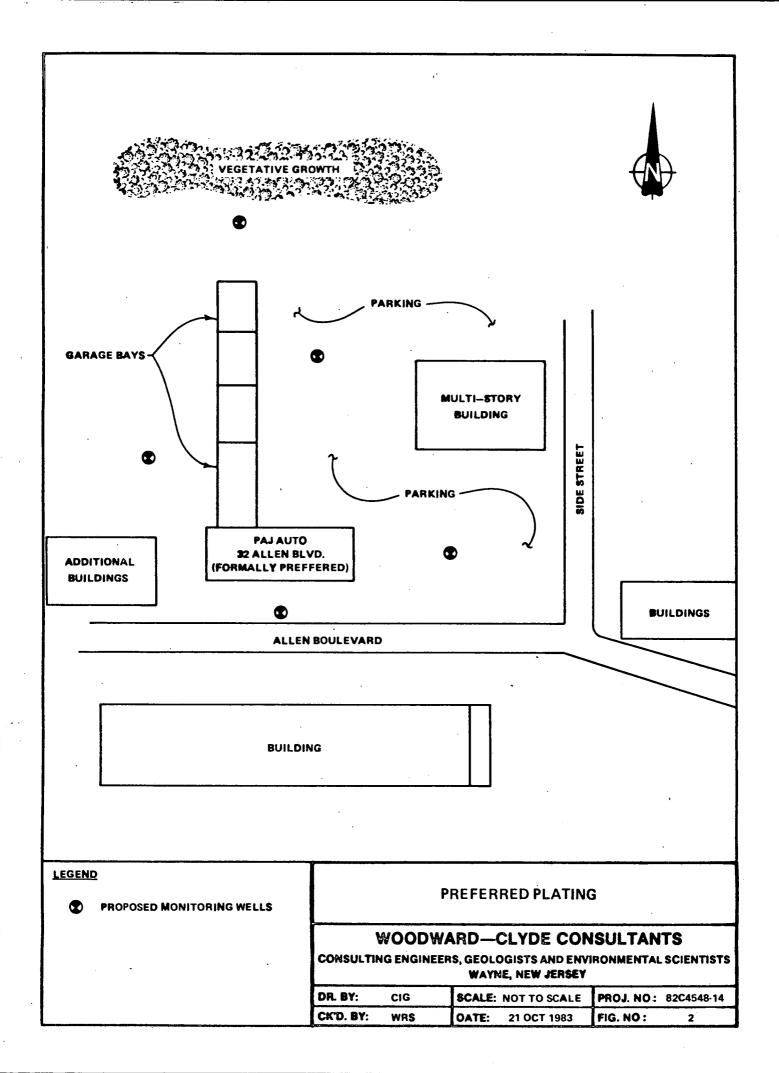
TABLE 6-5. REPORT PREPARATION COSTS.

				<del> </del>
			Estimated Cost	Total Estimated <u>Cost</u>
<ul><li>Direct Material</li><li>a. Purchased Parts</li><li>b. Subcontract Items</li><li>c. Other</li></ul>				
2. Material Overhead	Estimated Hours	Rate/ Hour		
3. Direct Labor Senior Staff Engineer/				
Geologist/Scientist Drattsperson Typist	30 10 3	12.62 10.24 8.44	379 102 25	
	,	Total Dir	ect Labor	\$ 506
4. Labor Overhead	O H Rate	X Base		
Labor Overhead	120%	506	607	
	To	otal Labor	Overhead	\$ 607
5. Special Testing				
6. Special Equipment				
<ul><li>7. Travel</li><li>a. Transportation</li><li>b. Subsistence</li></ul>				
8. Consultants				
9.		Other Dir	rect Costs	\$ 150
10.	0. 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 15.	т	otal Estin	131 nated Cos <b>t</b>	\$ 1,583
				<del></del>

TABLE 6-6. PROJECT MANAGEMENT COSTS.

=					_ Total
	•			Estimated Cost	Estimated Cost
i.	Direct Material a. Purchased Parts b. Subcontract Items c. Other				
2.	Material Overhead	Estimated Hours	Rate/ Hour		
3.	Direct Labor Principal In Charge Activity Leader Project Manager Asst. Prj. Engr/Geol/Sci. Typist	2 10 10	33.32 20.92 20.91 14.96 8.44	67 209 209 150 34	
			Total Dir	rect Labor	\$ 669
,		O H Rate	X Base		
4.	Labor Overhead Labor Overhead	120%	669	803	
5.	Special Testing	To	otal Labor	Overhead	\$ 803
6.	Special Equipment				
7.	Travel a. Transportation b. Subsistence			55	
			To	otal T <b>rav</b> el	\$ 55
8.	Consultants				
9.	Other Direct Costs				·
10	. т	otal Direct	Costs and	Overhead .	\$1,527
11	General and Administrative (rate 15% of Cost Elemen		, 4, 7, 9)		\$ 229
12	. Royalties				-
13	•. •			Sub Total	\$ 1,756
14 15	. Fee	Т	otal Estin	158 nated Cost	\$ 1,914





APPENDIX A

Woodward-Clyde Consultants, Inc.

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APPENDIX B

## Woodward-Clyde Consultants, Inc.

APPENDIX B PERTINENT INFORMATION

1053 60TH STREET BROOKLYN 19. N.Y. ULSTER 4-6400

BROADHOLLOW ROAD & ALLEN BLVD. FARMINGDALE, NEW YORK FARMINGDALE 2-2600

PLEASE REPLY TO \*\*\*\*

July 22, 1953

Nassau County Dept. of Health Riverhead, Long Island

#### Gentlemen:

Recently we have had an analysis made of our water supply which is from a new well. The analysis is a chemical examination which requires the talents of a Sanitary Engineer for scrutinization as to whether the properties are balanced for drinking water.

Therefore, we are asking your assistance at this time to review the enclosed physical and chemical examination made by the Lindsay Laboratories and notify us if it is approved.

Very truly yours

YTON MARUFACTURING CO., INC.

George C. Bernett Plant Manager

GCB:jmh Encl. (1 Report)

## INDSAY LABORATORIES

"Everything for the Patient — Consult Your Physician"

Since 1904

-- BRANCHES ---

90-22 Sutphin Boulevard, JAMAICA 2 131 Fulton Avenue, HEMPSTEAD

302 ASHLAND PLACE BROOKLYN 17, N. Y. NEvins 8-5480

## WATER ANALYSIS

LAB. NO. 759

DATE

June 30, 1953

RECEIVED

6/23/53

SAMPLE MARKED " EYTON WATER"

#### PHYSICAL AND CHEMICAL EXAMINATIONS

APPEARANCE	Turbid			
SEDIMENT	Slight Broanish	presibil	e te	
ODORCOLD	0	-		
CDDRROT	, O			
HYDROGEN ION CONCENTRATION (PH)	5.90			
COLOR (HAZEN SCALE)	0 .	PARTS	PER !	MILLION
TURBIDITY (SILICA STANDARD)	15.0	***	11	**
IRON	C • 17	***	**	"
CHLORINE AS CHLORIDES	<u> 10.8</u>	**	**	11
NITROGEN AS NITRITES	0.015	33	**	**
NITROGEN AS NITRATES	0.75	**	**	"
NITROGEN AS FREE AMMONIA	0.13	**	** .	**
NITPOGEN AS ALBUMINOID AMBIONIA	0.026	•	**	"
TOTAL HARDNESS (EXPRESSED AS CACOS)	52 <b>.</b> 0	**	11	11
ALKALINITY (EXPRESSED AS CACOS)	7.8	**	"	11
ORGANIC AND VOLATILE (LOSSEE IGNITION)	18.0	"	11	11
MINERAL MATTER (NON-VOLATILE)	5 <b>3 .</b> 0	**	11	**
TOTAL SOLIDS (DRIED AT 180°C)	65.0	11	**	**
FRSE CAPTON DICKIDE	6 <b>.3</b>	12	н	ti.

Note: Asseys run on filtered sample.

Byton Mfg. Co. Brondhollon Read & Allen Blvd. Paralman lo, L. E., E. Y.

ibt: St. Backge Balkets.

LIGHT, M.D. DESIGNER AND THE A

#### HERMAN E. HULL DE. M.D. COUNTYSIONER

TO THE DIRECTOR IN THERMS OF NOTICE OF AND SANTERS, AND SARESTORY, AND SARESTORY, AND SARESTORY

Examination of samples from catchment area — Long Island

Sub-watershed Project: Karpan Steel Prefab Co. - V. Farmingdale, Suffolk Co.

apple: Catch/composite

Date reported: 7/31/53

imon:		parts per million
Collected, 7/16/53 Time:	Muninum	<0.02
	Cadmium	<0.02 <0.01
and No. : SM 331	Copper	\0 <b>4</b> 0 <b>T</b>
rece outside tap - well	Iron	
	Nickel	
Weather:	Zine	
A carance of stream Coor	Hemavalent Chronium	<0.01
*9 <sup>d</sup> or		
Particulary	Cyanide	
fuspended matter	Thiocyanate	
logram and deposits	Phonol .	
	Physphates	,
Thination of sample parts per million		
Cor	Foud solids	
· *Qdor · · · · · · · · · · · · · · · · · · ·	Volatile	
Turk-fity	Fixed	
Suspended natter		
Temperature Communication of the period of the communication of the comm	Suspended solids a suspended solids	
Marie and Mide	Volatile	•
New Ared anygen	Fixed	
Per cent saturation	Disalved saids	
II C.D., S.day .	Volutile	
to returns the control of the contro	Fixed	
Charides and a second		
- <del>- Marthaly</del> .	Non-stribuble soft is	
Carlonate	Volatile	
Pradiction of the second	Fixed	
Hydromie - Landau - L		
Total	Settleable solids	• .
And the second of the second o	Volatile and the second of the second	
Nichal da da Santa Sant	Pixed us the	
Teral	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>Diggeneralism of Clare White offers</li> </ul>	Seuleable solids	
The second of th	ML per liter 1, hr.	
	Military Hiller I for all	
	ML p : 1 ter 2 h s.	
o Till trege trak Liggin om til ereka		
	The second of the William	

# Examination of samples from catchment area—— Long Island Sub-watershed

Project: Casey Jones School - V. Farmingdale, Suffolk Co.

Aple: Carch, composite

Date reported:

Sistem:	·		parts per million
·		Aluminum	1
Dee Collected 7/20/53 Tim	ne :	Cadmium <del></del>	<0.02
No.: S¥ 349		Chromium	<0.01
Some drinking fountain tap - wel	7	Iron	:
	Li	Lead	•
Weather:		Nickel Zinc	
Africarance of stream		Heravalent Chromium	<0.01
*Odor Turbelity Suspended cauter		Cyanide	
Bottom and Exposite and a many		Phonol	·
		Phesphates	
	parts per million		
Color		Total solids	
*Olor		Volatile	
Turlélity		Fixed	
Tuspen hed martin			
Trup ration (C		Suspended solids	
pH velue a con-		Volatile	•
Arton dioxide Product exygen		Fixed	
Personal System  1. Personal Systems in the second system is second system.			
■0.O.D., 5-day .		Dissolved solids	
Lardiness		Volatile	
Chlorides		Fixed	
_Mkalinitý		Non-settleable solids	,
Carlemate		Volatile	•
What boate in a contract	•	Fixed	
My Iroxide			
Total		Scatleable solids	
A lity of the little of the li		Volatile	
Misseral community symmetry		Fixed	
Total Lamb processing a second			
Payen consumed		Soul able solids	
Prog. Echroniate	•	ML per liter Julin. ML per liter Lin.	
		Why a Few 2 his. In the case of	
Marakan mia ■ 18 mara			
		TO THE STREET, MINNE	
<b>.</b> .			
		<b>;</b>	

sple: Catch/composite

#### NEW YORK STATE DEPARTMENT OF HEALTH ALBANY 1

HERMAN E. HILLEBOE, M.D. COMMISSIONER

Form 44e 8-30-51-3M (1B-605)

F. WELLINGTON GILCREAS ASSISTANT DIRECTOR IN CHARGE OF LABORATORIES FOR SANITARY AND ANALYTICAL CHEMISTRY

#### Examination of samples from catchment area— Long Island Sub-watershed

Project: Barnes Precision Tool Farmingdale, Suffolk Co.

Date reported: 8/21/53

ion:	6. parts per milion
ne Collected: 7/24/53 Time:	Aluminum
	Cadmium Chromium
No.: 5W-364	Copper
arce: Tap - well	Iron Lead
Ather:	Nickel
Searance of stream Felor	
Oñor Turbidity : Fuspended matter	Cyunide
tom and deposits	Grease
	Phenol.  Phesphates  Sample not preserved and 11 days old  when received
commation of sample parts per million	when leceived
i-lor .	Total solids
Odor	Volatile
Turbidity Tuspended mater	Fixed
Pragenture CC	Suspended solids
pH value	Volatile
Carbon di xide	· Fixed
bissolved oxygen	
Per cent saturation	Dissolved solids and an analysis and an analysis
Andress	Volatile
Merides	Fixed
Alkalinity	Non-settleable solids
Carbonate (1.1)	Volatile
Dicarlocate (	Fixed
Hydroxide ≅ Total	
Addy	Settleable solids  Notatile in
Mirreal	Visit in the second of the sec
Total	
Expension section (	South Admin Ads
■ Prop. A La rate in .	C. Miliped litter 12 hr. d. d. d. d. d.
	III. per liter I far. (1. 11. 11. 11. 11. 11. 11. 11. 11. 11
	May a Bier 2 hrs.

uple: Catch, composite

DIRECTOR ... MILLER, M.D.
ASSOCIATE DIRECTOR

DIRECTOR "

## NEW YORK STATE DEPARTMENT OF HEALTH ALBANY 1

HERMAN E. HILLEBOE, M.D. COMMISSIONER

Form 44c 8-20-21-1M (1B-605)

F. WELLINGTON GILCREAS ASSISTANT DIRECTOR IN CHARGE OF LABORATORIES FOR SANITARY AND ANALYTICAL CHEMISTRY

Examination of samples from catchment area—Long Island Sub-watershed

Project: Eyton Mfg. Co.,

. Farmingdale, Suffolk Co.

Date reported: 8/21/53

tion:	parts per million
elected: 7/24/53 Time:	Aluminum
17 327 33	Chromium
No.: SN-366	Chromium
	1ron
Tap - vell	Lead   Nickel
ather:	Zinc
	62111
parance of stream	
Color	Mot detemined
Tybidity	Cymine
Suspended matter	Thiocyanate
•	Crease
and deposits	Phosphates
	Flample not preserved and 11 days old when
_	received
a mation of scaple parts per millio	on a second seco
Coronal Control of the Control of th	Total solids
Olor Communication of the Comm	Volatile
alidity	Fixed
*Depended matter	
Temperature <sup>P</sup> C	Suspended solids Volatile
rbon dioxide	Fixed
Dissolved oxygen	TACI
Figure 1 sales from	Dissolved solids
O.D., Solay	Volatile
Turiness	Fixed
Chlerides	
ficalianty	Non-settleable solids
Configurate (1997)	Volatile
Bicarle state	Fixed
Hydroxide a mark a second of the Total and a second of the	Settledde solids
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Mineral Communication	Pivol.
Total Commence of the Commence	
💆 Contract of the Contract of	Social Microfilds
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	Mill, per litter I far, and an an an
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113 N.

August 10, 1953 Estpen Strel Freday Company Allen Indleward Fest Tamili, dale, New York Contlamen: A couple of your wall water collected on duly 16, 1993, by a representative of this depend on and analyned in the New York State Time tient of Fealth Laboratory at Albany indicated that your water un ply did not contain any mrangable Escurts of hemavalent or total chanded or any caddium. Very traly years Postert W. Carida, F.Y. Discator of Tayler andal Samilation 

GHAFRE DALL BORF, M.D. PICKLIOR JOHN K. MILLIR, M.D. ASSOCIATE DIRECTOR

ple: Catch/composite

#### HERMAN E. HILLIADE, M.D. COMMISSIONER

ALSINTANT DIRECTOR IN GRAPGE OF LABOURATORIES FOR SANTARY AND ANALITICAL CHEMISTRY

Examination of samples from catchment area— Long Island Sub-watershed

Project: Palerri Metal Products

Farmingdale, Suffolk County

Date reported: 8/21/53

Mon:	parts per millior
Collected: 7/24/53 Time:	
	Thronium (Rev. <0.01
.m. No.: SN-363	Copper Copper 20. Jr
Tap - well	Iron
	Nickel
Veather:	Zinc
Regrance of stream	
Color	
*Odor	Cyanide **Hot determined
Furbidity	
Fuspended matter	Thiocymate
agtom and deposits	Phenol
	Phenol
	Example not preserved and ll days old when received
parts per million -	
folor	Total solids
*Odor	Volatile
Turbidity	Fixed
uspended matter	
Fragerature C.	Suspended soluls.
pH value	Volatile
Farbon dloxide Dissolved oxygen	Fixed
Per cent saturation	
(a) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Dissolved solids
Jardness	Volatile
Chlorides	PAPEL
Alkalinity of a local	Non-settleable solids
Carlagrate	Volatile
Bioartionate	Fixed
Hydroxide	
Total	Serticable solids
William Commence and	A clarific and a second
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	Vol. 6 v. Machine M.P.N.
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March 22, 1954

Mr. F. Wellington Gileracs Assistant Director Division of Laboratorics and Research New Scotland Avenue Albany, Her Work Re: Ground Water Pollution due to discharge of untreated industrial wastes in ground by Preferred Matala Company

Dear Mr. Gilereas:

Three charical sample bottles sent to you on March 17, 1954 are to be tested for horoval int chronium. Previous camples taken from the same locations lust Begin her were sont to your laboratory for carlyses. Two samples showed a high concentration of herovalent chronium. Since that the the distinctive yellow color has disappeared from one of three real locations.

The are interested in finding out the present degree of contamination in the ground vator underlying three leadings. The samples were taken from the uself of the Preferred Widels Journay, the Leaksit Tool Company and the Dusay John Poissol of Adventuation Inc. At present, all three contains are using bottled vator. The Preferred Metals Company, those waste products has cased the containation, has take so a effort, punding the installation of a waste treatment system, to reduce polducion by recoving the norm concentrated solutions from the area.

Tay indy , we.

Nort B. Dae'der, K. D., Dapaty Courtestor or

By: Jeim P. Maissay, Topikany Jaginose

JI YE

ore letter June 3, 1955 Mr. F. Wellington Gilereas Re: Ground Water Pollution Director due to discharge of Division of Laboratories and Research untrested chrowic soid New Scotland Avenue wash waters into Fround Albany, New York neters Daur Mr. Gilereas: The samples taken from the wells of the Professed Hetals Company and Ishheit Tool Company are to be tested for the presence of hexavalent chronius. I refer to past communications on the ground vater pollution due to the industrial operations of the Preferred Motels Company for background. The probest disposed system complets of a series of catapools into which the chromic sold wish indoes are dumped universed. These exceptools have been rejected approximately 100% due yest of the lastified previously. used for disposel. The rells have not pleared up to the point whom visual evidence of conteninotion is disent. Very touly jours. Mar. Decher, M. D., Daguty Commissioner By: John P. Mahousy, District Engineer JEHRAL

LAW OFFICES OSCAR MUROV 272 SOUTH WELLWOOD AVENLE LINDENHURST, NEW YORK OSCAR MUROV EDWARD R. PHILLIPS TELEPHONE: JOSEPH P. PFINGST LINDENHURST 5-2400 October 24th, 1955 Suffolk County Department of Health 246 Griffing Avenue Re: Riverhead, New York Attention: Mr. H. W. Davids, P.E., Director of Environmental Sanitation Dear Mr. Davids:

Town of Babylon vs. Violators of Building Zone Ord. causing polution of underground waters - #6206

I have been alerted by Mr. s. Lester Brown, Building Inspector of the Town of Babylon, with respect to the fact that Preferred Manufacturing Company at Allen Boulevard, North Amityville, New York, has failed to complete the installation of the sanitary system which would eliminate the polution of the underground vaters in the township.

This morning Mr. Brown and his assistant, Mr. Harry "cisgarber, visited and discussed the matter with the Cwner who promised to immediately enter upon the installation of the sanitary system, which plans he advised have been approved by your office.

After a conference I was directed to serve notice upon Faciliaried Manufacturing Company that unless they entered upon the installation of the sanitary system within the next 48 hours and unless they show proof by contracts that they have engaged other concerns to underbake such work within said 48 hours that we shall he obliged to proceed against them immediately for violation of the Town Ordinance.

Our notice to Preferred Manufacturing Company will also indicate that not only must they immediately undertake the installation of the samitary system but the same must be completed aithin 30 dars.

I am giving you notice of these facts so that our Town officiels can tark along with you in climinating the polution problem in our township. Also I would appreciate your advising we es to the type of system being installed by Profeshed Henufacturing and whether or not the same mosts with your agreeml.

I tould appreciate your aloa disting we as to shadow the property of the street of the property of the street of t and the second of the second o

Suffolk County Department of Health

October 24th, 1955.

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satisfactorily.

I trust you will give this matter your immediate attention and let me hear from you at the earliest possible time.

Very truly yours,

OM/amr

00/ S. Bester Brown, Esq.

CC/ Hon. Donald E. Muncy,

Supervisor

REGERALLY SET IN A 3 Mr. Davida

October 27, 1955

Mr. Wallace W. Samierson
Assistant Director
Division of Jaboratories and Research
New York State Separtment of Health
New Scotland Avenue
Albany, New York

Ds: Great water pollution due to discharge of releasing chronic and in the balans on to ecound surface.

Dear Ir. Confrisson:

The chimical sample sent to the laborateries on Catelor 26, 1955 from the Proferred Detals Company is to be tested for the process of boundent chemium. I refer to past as aunientian on proud rater pollution due to industrial operations of the Proferred Vetals Company for background. The last chemical sample sent to your office associated June 3, 1955.

The process disposed professions of a crosspool read as a holding tank and treat and charbon with the discharge line crating on the ground somface a provincistly 400° due aret of the Position previously used for disposal. In the case where the province loss tion had been used for disposal, will so glow taken from 3 places showed the availant observant to be protest in the retor supply with a concent without of b.8 P. P. M. Since the release to the chart of the disposal systems, these tables have cleared up.

Presently the industrial waste effluent is ownered by the head in the entropolheading tank-treatment charber by the latch without with flowers is a collecte and line. The present sample the delicity flow the period of the which was the relates of the provider dupit in the late of the test of these is discharged on the grown and ellered to each in the sail and themse into the ground setter.

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 \*process to the second of the following of the second of the s 2.1. 大块的设施。以及数据设施的工作。数据代数4.50 编码数据信息等等。

## 12 17 4. 1953:

Shades of the transfer

It was found that untrasted wasted warm still being discharged into ground waters. disticual inspections ando in the month of Pebruary and sampling of the waste discharged from the plant showed that leaching pit il contained cadrium, 5.4 ppm; towardent chronium, 0.01 ppm; total chromium, 0.35 ppm; copper, 0.60 ppm; sinc, 2.2 ppm; and a pH of 3.6. From leaching pit i2: cadrium, 0.38 ppm; hemavalent chromium, 1.44 ppm; total chromium, 2.4 ppm; copper, 0.70 ppm; nickel, 0.10 ppm; time, 0.50 ppm; and a pH of 10. From leaching pit i3: cadrium, 2.6 ppm; hemavalent chromium, 0.01 ppm; tell chromium, 1.75 ppm; copper; 0.53 ppm; cinc, 16.0 ppm; cyanide, 2.2 ppm; and a pH i 3.9.

### · --- 3. 1959:

In informal be roing was hold at Diversed. Mr. Yevag provinced to complete installa-

To proting their such and all fire, drive, and Soute has. The to the treat fire titles for the operation of the treat antithe operation ratio was in equalities. Mr. Years, during the time of countraction, had province that the time of countraction, had provinced a tank track to the Torm Drup.

## party 1. 25 2 Carrier 1982:

In force, strict that he had two moths left in completing the chlorinater invialistion. In forcewien in the letter part of Cetcher should that the installation will had not had not had not the first of the house of the raid of the file of information against for a light of the had not for a stronger case was needed. This Proposition that a stronger case was needed. This Proposition the a stronger case was needed. This Proposition the a suscelled of the control of the Town of Pabylon to determine their position to provide a different the Frilding Papt., Form of Debylon, was in a little position of a language out legal action against Professed Hig. Company. The Decar of lights intimized its limitat to cover out such action. Morever, no feather infer after a first matter to discuss the such action. Morever, no feather infer after a stronger out to the such action. Morever, no feather infer after a stronger of the light of the Professer.

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to hope that the above information enswers the questions you had and gives you not be idea of the history of this problem.

Color of the Garage

If there is any other indeposition we can supply, please feel free to contact this Very truly yours,

Aldo Andreoli District Engineer.

Lingk

ro: No. Jan K. Mila

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Colonel Fabort J. O'Cohnor Chief, Litigation Division Office of The Judge Mirecate General Deposits of the Assay Vachington 25, D. C.

Pair Calonel O'Commur:

We have constitud the copy governot us of the 150 on your Figure Labor education from Society & Forfernot Francisco Color of the rate surgly so HAUS Side of the formation. Your professore is Albir 1994 (15-T.

లో టా 10 కి ఎక్కకకలు కేద కోసాంటి కేద్యాల కేద్యాలో కేస్తా అని పైటికా పెండి ఉద్దేశకు కొన్న కొన్నాటి కొన్నట్టుకు నిమి. No లేదు, కోస్సులుకోంటాల, కార్కట్లు ప్రార్థికే ఇద్దించి రాష్ట్రకోన్నూ కోసుకు ఉమ్మంది కేగు దర్శాయకోవడు కరణి కోనిస్తేషనై ఉన్న సైసుకోవడి ప్రార్థికి కొన్నట్లుకో కోను ఉన్నట్లో

Enforce we make a final decirion, however, we need additional information.

## 1. Particularizate of contribute.

The jour suport of invertigation defined Angust 27, 1958, it is started as yello 2:

Nicola isonie is in our of the receive to the brown liky of the isonic in the second of the contract of the city of the second of the contract of the city of the

DEC 1975, This puis give was the Astronomy Com.

en de la composition La composition de la La composition de la Department of Health. We thus deduce that the conteminated water had not made any of the personnel ill and that it was not seatherically objectionable as to taste or color.

In Exhibit U, it is said in paragraph 1 that the United States Fublic Health Standards states that 0.05 ppm of chrosium is cause for rejection of a water supply. Will you give us the source and citation of this standard, or any other pertinent information about it and its baris. In the same paragraph, it is said that "no paraissible limit has been established for cadmium; however, it is considered to be taxic as heavylent chrosium." Will you also tell as specifically by whom it is so considered.

We would be into a trid in empthing equiffic on the seriousness of the land bere trid might be used in the or plaint and precentation of evidence to set this betalence and only or set he of the rall ond consection to deather water enoughly were needed in the occupiedat such temptage. We are an order chary of using in the occupiedat such language as "enfit for bean connection," "published," and "contaminated," as they arguidly are either (1) to mingle a so for as staring a cause of aution is concerned or (2) supplies the rather than leats.

## 2. To "Evryoy of Industrial Wictes" (Indibit R) .

The survey on page 2 notes that the industrial whotes in the Township of Fubydon are significant thus to the physical characteristics of the set-oils, velocities, and nevenue of the ground voter."

The content which this result that there for ions are a conting the content in the Trederood, for one, would not have been a countly expected to how that the vestes it discharged sould on a countly the Anny sould, at he of this initially. If so, at what time, equalifically, was Tandous to the direction of the appearant of the property of the proper

In the chisen with this, is the movement of the underground tator in the fit chief of the Army well really significant? In other tools, the Flactor to the integround conditions in the to have then it is to have

Headquarturs Fort Totten Fluching 59, L.I. New York

> Re: Preferred Manufacturing Company Town of Fabylon - Suffelk County

ATTENTION: Edward S. Advikevicz, Ur. lst Lt, 1490 Asst Post Judge Advocate

#### Genulauen:

Reference was made to your letter of October 19, 1960 which requested shawers to eight questions concerning the activities of Preferred Manufacturing Octobery, Allen Boulevard, Farningdele, New York.

The informations furnished has been numbered to correspond with the questions of your Origins 19 letter.

- T. Supples collected from the well at the Army Riki Site, NY-240, East Parmingdale, on January 23, 1958 by this Department should the presence of 0.60 ppm, of homevalent chromium. The Public Bealth Service Drinking Water Stephenest and a first of 0.05 ppm, of homevalent chromium. If in excess of the 0.05 ppm, it is sould be stitute grounds for the sounds.
- (F. Taflerice is a set to "Convey of Indistrial Master, Town of Rabylon, Confelk County, Tablek County Department of Maslin", prepared by Flyon and the part. The estroy on the first dies that due to the physical description in the strine of the proved value, in the of the provide a long of the provide and the continuence of the provide provide and the continuence of the the continuenc

Mr. Young was notified on July 17, 1953 to appear before the Commissioner of Health of Suffolk County on July 23, 1953. At the moeting he was notified that samples collected by this Department analyzed by the New York State Department of Health from the well of Lenkert Company, approximately 150' S/E of the industrial waste leaching pools of Preferred Manufacturing Company, and the well of the Preferred Manufacturing Company, approximately 70' S/o their industrial leaching pits, showed the presence of 8.0 ppm. and 0.8 ppm. of hexavelent chromium perspectively.

Mr. Young was akied that as a former Director of the Plating Department at Liberty Aircraft, Farmingdale, was he aware that pollution of ground water from the waste of the Plating Department is of the same type of warte as is now being discharged from his plant and that such waste can be treated?

The neighboring well, which was contaminated in 1953 was abondened. A new well was extuded to a deeper strata which had not been contaminated by injustrial discharges. Puring the construction of a new well, bottled water was being used.

III. The wash waters from various processes at Preferred Manufacturing were toing discharged to self-service leaching pits. 2iA. jur/ru. 7

- IV. The Army well is located to the S/o the Preferred Manufacturing Cancerny's industrial leaching pools. In this area, the ground usters flow in a portherly direction. References also made to "Survey of Industrial Mastes, Town of Eab-ylon, Suffolk County Department of Health", prapared by Flore and Amir-oli, page 2, paregraphs number 1, 2 and 3.
- V. Preferred does have wells on its property for drinking cut, at s. In 1953, numples collected from this well showed the precence of how elent chromium in excess of the United States Public Health Drinking Standards. The well was deemened at that time to an uncontaminated strate, however, the well had to be relocated and deepened a number of times since, due to the intrusion of injustrial vastes.

VI.

J:I.

ారు 6. కారులో కార్యం కథ్యా కొరుకున్నారు. ఇంకాన్యమనిగాడాం.. కోహాం. మొదుకున్న కథ్యా కోర్డా కిందాన్ ఇంకార్ ఇంకార్ ఇంకార్డు కొర్వార్ కార్యం కూరో ఎందర్కు కోరుకున్న పోర్యం ఉంది ఈ పెట్టికే. కోస్కార్ కోస్తార్ కోస్తున్న కొర్తారి ఇంకార్డు కొర్వార్ కోస్తున్నారి. మందర్కు కోర్డు కోర్డాన్ అయికారుకు ఉంది. కోస్తార్లు కోత్సార్ తెల్కు ఉంది. కోస్ DIFFURCTIONS TO IT WELLS I OUT INTO THE POST SELECT ALLOCATE Fort Totten, Eluphing 59, L. I., Now York

Octobre 19, 1960

Suffolk County Department of Health Bay Shore Office 8 East Main Street Bay Shore, L. J., New York

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the ground mater mastes". Does this mean that these factors are unusual to the extent that Preferred, for one, would not have been reasonably expected to import that the wastes it discharged would contaminate the Away well, at least initially? If so, at what time, specifically, was Preferred put on notice (about the direction of the movement of the ground water, for example) as to the likelihood of contamination?

In correction with this, is the mivement of the underground water in the direction of the Army well really significent? In other words, was Preferred applied of the undergood conditions in time to have provided the pollution?

It is acted that contended by Preferred, according to the Survey, as the credit of saving as high. The design well a nimelection was discreted by the color high which the presentation of the interior sas of each a return that Prefer and I for an element that broken in the the image will would probe by the color had been the fact of a least training officially, for tentere, the color had into the color that the fact of the presible dangers so that the color of the interior are could have been only before high?

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Must is with date of the Survey?

- ું. તે તમેદ મોટ પ્રાથમિક વેદનો કહેલી હાસ્તુર દેષુ કેન્દ્રિક છે. જામેદ પૈકાર કું. સમાતે મહિલાન?
- h. As The condition aged the varies into a below-the surface of college, is the college of the frequency delication to the frequency well proved bly significative. We offer a cole, is the configuration of the composite that the beginning of the composite that the co
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Meadaurters Fort Totten Office of the Fast Judge Adveste Fort Totten Firs by 59, L.I., Des York To: Professor Desired and Company
The Control Desired School County Court Burners This case to a later to a tribe 10, 1909, 190, 190 in the tribe 10, 1900, from the tribe 10 and 10 a Article 12 19 18. និងនៅលិខិតពីបច្ចេចទៅពេលបើលេខ ដែលបញ្ជាដៃសើលនេះ អនុក្សាសិស្ស ថា ប្រជាពេលប្រជាពេលប្រធានការប្រកាស វិសាស មិនិការបន្ទាប់ ស្នើក្រុម និងនៃប្រជាព្រះស្នាក់ស្រុសពីស្រុសស្នាក់ស្រុសស្នាក់ស្រែស សែស សេស សេស ស្រុស្ស វិសា វិសាស មិនិការបន្ទាប់ ស្នើក្រុម និងនៅក្នុងចំនួនគ្នាស្រុសពីស្រុសស្នាក់ស្រុសស្នាក់ស្រុស ដែលប្រធានការប្រការប្រការប is a line in a grant letter rule and to show: 2. The specific hardy specific to a constant property by the constant of the c The Main Commiss in a defining which supply assistants in the Commission of the Comm 

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ENVECNMENTAL CONTROL JOB NO. <u>BA 9130</u>

APPLICATION FOR WASTE DISPOSAL PERMIT

PRELIMINARY ENGINEERING REPORT

PART I

SUBMITTED TO

THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONTROL

BY

PREFERRED PLATING CORPORATION

32 ALLEN BOULEVARD

FARMINGDALE, NEW YORK 11735

PREPARED BY

DONNELLY ENGINEERING COMPANY

425 NEW YORK AVENUE

HUNTINGTON, NEW YORK 11743

MAY 1974

CORPORATE OFFICER

LAWRENCE A. DONNELLY,

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#### A. Overall Project Summary

#### Al. General Description

Preferred Plating Corporation has the facilities to chemically treat metal parts for the purpose of increasing corrosion resistance, provide a cohesive base for painting and improve appearance. The plant is typical of a small metal surface finishing shop. Metal parts are received and immersed in various chemical solutions. Wastewater is produced by rinsing the parts between each treatment bath.

The factory employs 12 personnel on a single shift, 5 day week. Figure 2 shows the factory floor plan. It can be seen that the plant consists of material inspection and shipping, storage, metal finishing and office areas.

This report addresses itself to the reduction of wastewater quantity, which will be stored for later removal by an approved scavenger; and the disposal of an existing quantity of wastewater which had been stored in the past from processes no longer in use at Preferred Plating Corporation.

#### A2. Identification of Pollutants

The pollutants in the wastewater of Preferred Plating Corporation are typical of a metal surface finishing shop.

The following is a list of treatment baths used for metal parts.

Alodine
Phosphate
Hydrochloric Acid
Alkaline Cleaner
Periodic Reverse Plating
Dichromate
Caustic
Nitric Acid
Non-Etch Cleaner
Sulfuric Acid
Chromic Acid
Black Dye

Their concentrations can be found in Table 1, Section B2. The chosen method for wastewater disposal is storage and hauling. The nature and concentrations of the pollutants are therefore relevant only to carting costs.

#### A3. Classification of Receiving Waters

Preferred Plating Corporation is located 1800 feet North of the 42° 30' latitude line and 1200 feet West of the 73° 25' longitude line as shown on the Amityville, New York Quadrangle Map.

The surrounding area consists of industrial and commercial properties. Allen Boulevard passes on the Southern boundary, in front of the factory, which is about 300 feet East of Broad Hollow Road, Property elevation is 55 feet above sea level. Leaching pool disposal of raw sewage is customary in this area. The receiving ground waters are classified as CA. A portion of the USGS Topographical Quadrangle is presented in Figure 1.

Factory process water is pumped from a well on the factory site. The well depth is approximately 80 feet and has a pumping capacity of approximately 15 gpm. Bottled drinking water is used at the plant.

#### A4. Requirements for Waste Treatment

The domestic waste from this factory is from toilets, wash basins and drinking fountains. There is no cafeteria or other source of kitchen waste. The domestic sewage may pass directly to the sanitary leaching pools for subsurface sewage disposal.

The industrial waste consists of rinse water from the sulfuric acid running rinse, 12 stagnant rinses, and steam condensate line. It is proposed to store and haul all wastes except the steam condensate which can be sent directly to the leaching pool.

#### A5. General Plans for Pollution Abatement

Waste water flow is currently at a minimum for this installation. The overall plan for pollution abatement is to store all wastewater for subsequent removal by an approved scavenger.

All rinse water lines, running and stagnant, will be plumbed to the holding pits behind the factory, (see Figure 2), for later removal by a scavenger. The steam condensate line will be separated from the sulfuric acid rinse line and condensate will be drained to the leaching pools. All other drains will be located and closed to prevent accidental discharge of objectionable waste to the leaching pools.

#### A6. Process Schematic and Hydraulic Profile

The plan view of the metals surface finishing room is presented in Figure 3. This drawing shows the location of all process tanks. Also shown are the wastewater drains.

Figure 4 is the hydraulic profile of the wastewater drainage system from the sulfuric acid rinse tank. The layout of the water collection system is shown delivering wastewater to the pits located behind the factory building. As can be seen, the transfer of wastewater to the pits and leaching pools is accomplished by gravity flow. With the stagnant rinse tanks changed monthly, total water consumption will be 4025 gallons per month. With the incorporation of a double stagnant rinse system, the total can be cut to 2050 gallons per month.

Under the current rinsing system, the one running rinse produces 1300 gallons per month while the 9 stagnant rinses are producing 2725 gallons per month. Introduction of double stagnant rinses would reduce the 2725 figure to 779 gallons per month.

- B. Plant and Process Description
- Bl. Factory Plot

Figure 2 is a drawing of the Preferred Plating Corporation property. It shows the plant layout, leaching pool locations, and location of wastewater holding pits.

#### B2. Description of Factory Wet Process

Metal parts are received at the plant. They are degreased in a solvent degreaser and then chemically cleaned in one of 3 cleaning processes. The parts then receive the proper chemical finishing to provide increased corrosion protection, a base for paint or improved appearance. The following is a list of the factory wet processes and their tank sequences (Tank numbers refer to Table 1; see also Figure 3).

#### Cleaning

- A) Etch cleaning 15, 16, 17, 18
- B) Non-Etch cleaning (for close tolerance material)21, 22
- C) Alkaline Cleaner
  9, 8

#### Surface Finishing

- D) Chromic Anodize
  A or B, 26, 27, 1
- E) Sulfuric Anodize
  A or B, 23, 24, 1
- F) Chromate Conversion (Alodine) A or B, 3, 2, 1
- C) Black Dye29, 30, 1
- H) Stainless Steel Passivate C, 10, 8, 7, 6, 11
- I) Phosphate CoatingC, 10, 8, 7, 6, 32, 5, 4

B2. Description of Factory Wet Process (cont'd.)

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Metal parts entering the plant will go through any one of the following groups of processes.

## Aluminum

- 1) D
- 2) E
- 3) F
- 4) D, F
- 5) E, F
- 6) E, G

## Steel

- 1) H
- 2) I

# B2. Description of Factory Wet Process (cont'd.)

<u>Tabl</u>	e l - Tank Identification			
1)	Stagnant hot water rinse		243	gal
2)	Stagnant rinse (for Tank #3)		81	gal
3)	Chromate Conversion Coating		140	gal
	Alodine 1200 (Amchem Chem Co	<u>o.)</u>		
	cro <sub>3</sub>	2515 mg/liter		
	Fe(CN) <sub>3</sub>	1440 mg/liter		
	Complex Fluoride Salts	3235 mg/liter		
4)	Stagnant rinse (for Tank #5)		382	gal
5)	Phosphate Coating		344	gal
	Parco Compound (Hooker Chem	.Parker Div.) 54,000 mg/lit	er	
6)	Stagnant rinse (for Tank #7)		155	gal
7) -	HC1	213,000 mg/liter	355	gal
8)	Stagnant rinse (for Tanks #9	and #10)	54	gal
9)	Alkaline Cleaner	•	400	gal
	Udylite Oxy Prep(Hooker Che	mUdylite Div.) 90,000 mg/	/liter	
10)	Periodic Reverse Plating	60,000 mg/liter	100	gal
11)	Passivate		60	gal
	HNO <sub>3</sub>	513,000 mg/liter		
12)	DiChromate (for Al metal)		45	gal
	Na 2 <sup>Cr</sup> 2 <sup>O</sup> 7	39,600 mg/liter	•	
13)	DiChromate (for Mg metal)	•	165	gal
	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	132,000 mg/liter		
	CaF <sub>2</sub> or MgF <sub>2</sub>	2,630 mg/liter		
14)	Stagnant Rinse		110	gal
15)	Caustic Etch		5 60	gal
	Aluminux (Diversy Chem)	60,000 mg/liter		

# B2. Description of Factory Wet Process (cont'd.)

			<b>-</b> ∮
Tab1	e 1 - Tank Identification(cont'd.)		<i></i>
16)	Stagnant rinse (for Tank #15)		573 gal
17)	HNO <sub>3</sub>	513,000 mg/liter	260 gal
18)	Stagnant rinse (for Tank #17)	•	370 gal
19)	Chromate Conversion Coating		510 gal
	Alodine 1200 (Amchem Chem.Co.)		
	CrO <sub>3</sub>	2,515 mg/liter	
	Fe(CN) <sub>3</sub>	1,440 mg/liter	
	Complex Fluoride Salts	3,235 mg/liter	
20)	Stagnant rinse	• .	450 gal
21)	Stagnant rinse (for Tank #22)		145 gal
22)	Non-Etch cleaner		80 gal
	Alkalyte (State Chemical Co.)	60,000 mg/liter	
23)	H <sub>2</sub> SO <sub>4</sub>	219,000 mg/liter	330 gal
24)	Two tank counter-current rinse -Flo	ow rate 1 gpm	150 gal
25)	Chromate Conversion Coating		280 gal
	My Chrome Alchromate (Mitchel Br	iarford Co.) 11,250 mg/	liter
26)	Chromic Acid		1675 gal
	CrO <sub>3</sub>	43,000 mg/liter	,
	H <sub>2</sub> SO <sub>4</sub>	Negligible	, .
27)	Stagnant rinse (for Tank #26)		504 gal
28)	Degreaser		
29)	Black Dye	10,000 mg/liter	280 gal
30)	Stagnant rinse (for Tank #30)		306 gal
31)	HC1	213,000 mg/liter	55 gal
32)	Titanium Solution  Parkoline Z (Hooker Chem. Parker  NaOH  H3PO <sub>4</sub> Na <sub>2</sub> CO <sub>3</sub> Ti <sup>‡4</sup>	Div.) 1640 mg/liter 490 mg/liter 490 mg/liter 490 mg/liter 170 mg/liter	

#### B3. Water Conservation Techniques

Preferred Plating is currently employing a good water conservation program. The one running rinse in the rinsing system is a counter-current rinse. Water in this rinse flows only when objects are being rinsed. All other rinses are stagnant rinses. Further water savings can be realized through the implementation of a double stagnant rinse system. This will increase the life of the rinse by a factory of 3.5. The quantity of water consumed by the stagnant rinse will be 28.6% of its current level.

#### C. Factory Operations

Preferred Plating Corporation is a metals surface finishing plant which consists of an inspection and shipping department, a storage area, an office and a metal finishing area. The only industrial liquid waste source is the metal surface treatment shop. The factory employs 12 personnel on a single shift, 5 day week.

Metal parts are received in the shipping area. They are then sent through one or more of the processes explained in Section B2. Since all articles to be processed come from outside sources, parts received have no set size and shape. Therefore, the dragout of parts varies from job to job and cannot be estimated. The surface treatment of parts accounts for all industrial wastewater produced.

Domestic waste is only from wash basins, toilets and drinking fountain. This waste is passed directly to the sanitary leaching pools. All industrial waste is currently being held.

- D. Development of Design Criteria
- D1. Comprehensive Waste Survey

The sources of waste are best represented by the composition of the concentrated process baths (See Section B2). These materials will appear in the wastewater only through rinsing of parts or discarding of spent baths. Since all wastewater will be held and hauled by an approved scavenger, dragout calculations become unnecessary.

As already stated, all wastes will be "held and hauled". It is proposed to store the wastewater in the pits located behind the factory (See Figure 2).

To prepare the pits to be used as storage tanks, the following must be accomplished:

- Wastewater currently in the tanks will be treated and removed as described below.
- 2) Repairs to the pits will be made by grouting in all cracks.
- 3) Pits will then be coated with a bituminous epoxy to insure against leakage to the ground.
- 4) A wooden deck will be placed over the pits to improve safety and keep out rain water.

The pits that will be used to store the wastewater currently contain water contaminated with cyanide and chrome. The following treatments for these waters are proposed.

1) Cyanide Destruction - Tanks 1A, 1B and 1C

Cyanide will be completely destroyed by alkaline chlorination. The overall reaction for this proces is as follows:

$$2CN^{-} + 50C1^{-} + 20H^{-} \longrightarrow 2CO_{3}^{-2} + 5C1^{-} + N_{2}^{\dagger} + H_{2}^{0}$$

This reaction will take place in two steps. The first step occurs at a pH above 9 with a reaction time of 1/2 to 1 hour. The second takes place at a pH below 7.5 with a reaction time of 1/2 to 1 hour.

- D1. Comprehensive Waste Survey (cont'd.)
- 2) <u>Hexavalent Chrome</u> Tanks 1A, 1B, 1C, IIA, IIB and IIC Hexavalent Chrome will be reduced to its trivalent state using sodium bisulphite with sulfuric acid

 $4CRO_3 + 6NaHSO_3 + 3H_2SO_4 \longrightarrow 3Na_2SO_4 + 2Cr_2(SO_4)_3 + 6H_2O$ This reaction will proceed rapidly at a pH below 2.5.

The pH of all tanks will then be raised to 8<pH<9 to precipitate all heavy metal hydroxides. After a prolonged settling period, the supernatant will be decanted and discharged to a nearby leaching pool. The remaining sludge will be hauled away by an approved scavenger.

#### Procedure for Pit Treatment

It is important to have good mixing of wastewater while treatment is taking place. This will be accomplished by discharging compressed air through a tee located near the bottom of the pit. The air bubbles will lift the water and start a rolling action in the pit, thereby promoting good mixing.

#### Pit #1 - CN Destruction

- 1) Raise pH above 9 by addition of 11.64 g NaOH for each 10 ft. of water depth.
- 2) Add 2.42 lbs. NaOCl and 1.3 lbs NaOH. Add NaOH slowly to maintain ph between 9 and 10.
- 3) Wait 1/2 to 1 hour for reaction to go to completion.
- 4) When reaction is complete, lower pH to 7.5 through addition of  $27.7 \text{ g H}_2\text{SO}_4$  and add 3.63 lbs NaOC1.

# Pit #1 - Cr<sup>+6</sup> Reduction and Precipitation

- 1) After CN is destroyed, lower pH to 2.5 through the addition of 19.9 lbs of  $\rm H_2SO_4$ .
- 2) Add 0.634 lbs of NaHSO3.
- 3) Wait 1/2 to 1 hour for reaction to go to completion.
- 4) Raise pH to 8 through addition of 16.2 lbs NaOH to precipitate metal hydroxides.

D1. Comprehensive Waste Survey (cont'd.)

# Pit #2 - Cr<sup>+6</sup> Reduction and Precipitation

- 1) Lower pH to 2.5 by the addition of 19.6 lbs  ${\rm H}_2{\rm SO}_4$ .
- 2) Add 1.02 lbs of NaHSO $_3$  and 0.480 lbs of  $\rm H_2SO_4$ .
- 3) Wait 1/2 to 1 hour for reaction to go to completion.
- 4) Raise pH to 8 through the addition of 16 lbs of NaOH to precipitate metal hydroxides.

#### Pits #3 and #4 - Metals Precipitation

The only contaminants in pits #3 and #4 may be heavy metals. The contents of the two pits will be mixed together and then treated to remove heavy metals.

#### Procedure:

1) Pump contents of pit #4 into pit #3.

temperatures. Times stated are for reactions at 70°F.

2) Add  $0.525~\mathrm{lbs}$  NaOH to raise pH above 8. Reaction times in all preceding reactions will increase with decreasing

#### D2. Economic Analysis

With the stagnant rinse water changed monthly, waste water... accumulation at Preferred Plating is 4000 gal /month. Hauling costs are \$0.12/gal.

Yearly cost for hauling = (4000 gal/month)(12 months/yr)(\$0.12/gal) = \$5760/year

With the installation of a double stagnant rinse waste accumulation will be 2000/gal/month.

Cost for additional Tanks = \$5200 + installation costs

Amortizing this over a 10 year period at 10% interest

Yearly cost for new tanks =  $P_{\frac{i(Hi)^n}{(Hi)^n-1}} = (\$5200)(.163) = \$846$ 

Yearly cost for hauling = (2000 gal/month)(12 months/yr)(\$0.12/gal)

= \$2880

Total Yearly Cost = \$2880 + \$846 + installation

= \$3726 + installation

Savings realized through use of double stagnant rinse system = \$5760 - \$3726 = \$2034

Treatment of pit waste versus hauling waste.

Total volume of pit waste equals 46,500 gallons.

Cost for hauling is \$0.12 /gal

Total cost for hauling waste = (46,500 gal)(\$0.12/gal) = \$5560

Cost for treatment of pit wastes.

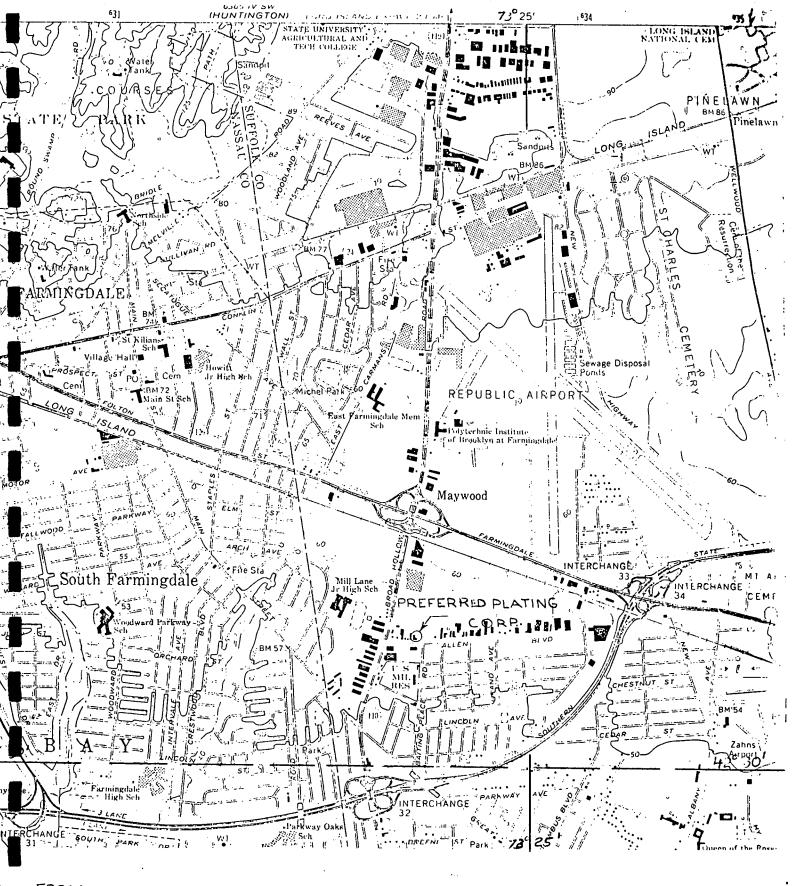
Cost of Chemicals = \$20

Estimated cost for labor to treat waste = \$1000

Cost for sludge hauling (estimated at 10% of original volume)

= (.1)(\$5560) = \$560

Total cost for treating pit wastewater = \$1580



FROM:

AMITYVILLE QUADRANGLE
NEW YORK
7.5 MIN. SERIES (TOPOGRAPHIC)

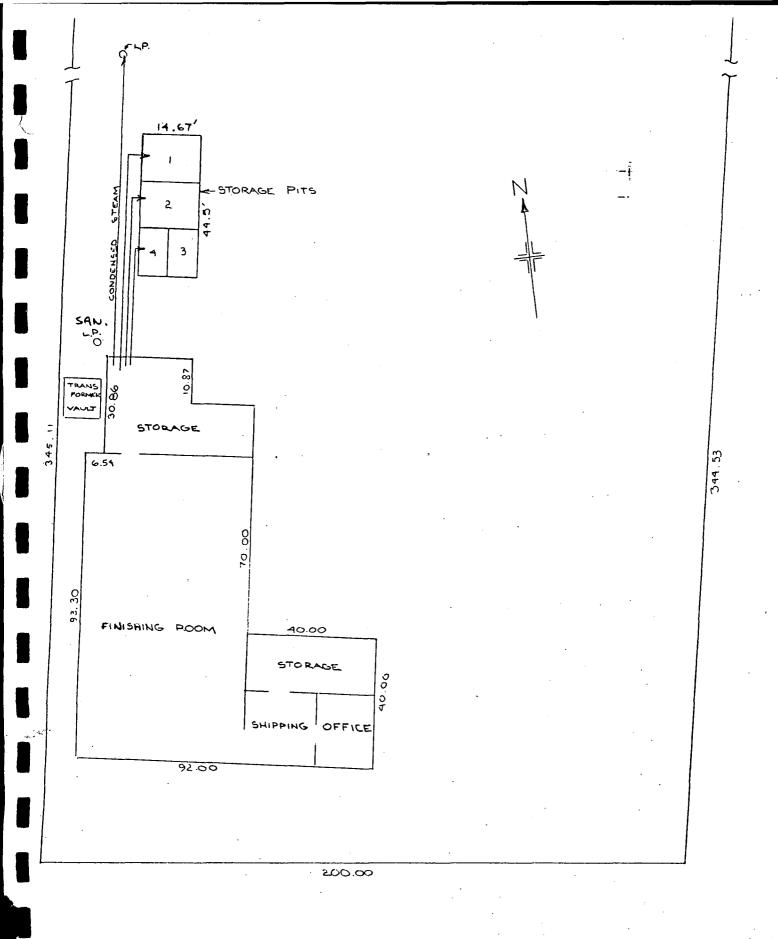
FOR:

PREFERRED PLATING CORP.

DONNELLY
ENGINEERING CO.
DATE: DEC. 13, 1973

FIGURE # 1 SCALE: 1"= 2000'

Page - 18-

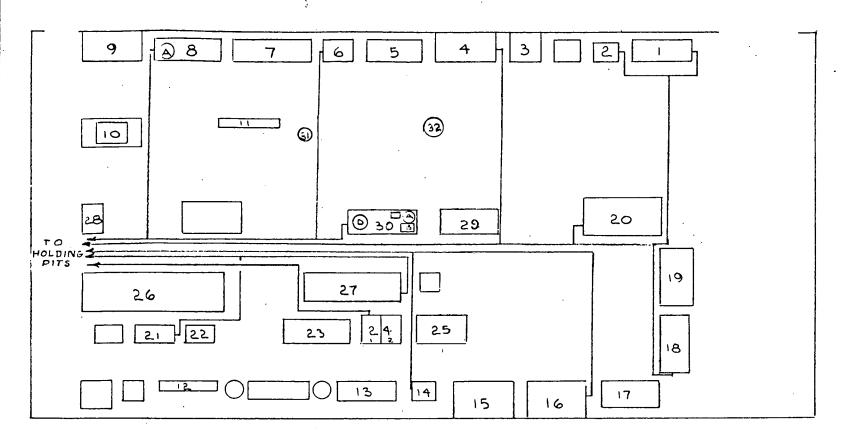


KEFERRED LATING INC. 8Y:

DONNELLY ENGINEERING CO.

DATE: 2/22/74 SCALE: 1"=30'-0" FIGURE # 2

Page -19-





FINISHING ROOM
TANK LAYOUT
SCHEMATIC

NOTE: TANKS NOT NUMBERED ARE NOT USED FOR ANY PROCESSING.

SEE SECTION BY TABLE I FOR TANK ID.

FOR:

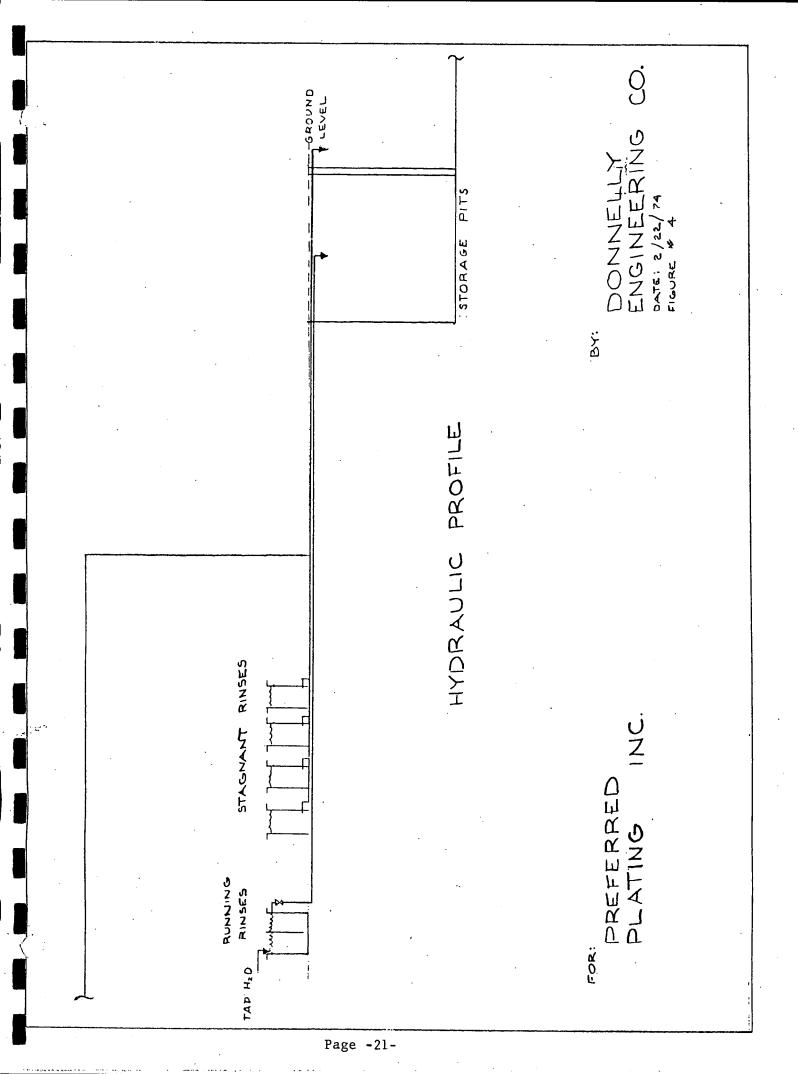
PREFERRED PLATING INC.

BY:

DONNELLY ENGINEERING CO.

DATE: DEC. 13, 1973 DR BY: M. AVANZINI

SCALE: 1": 10'



John of Flynn, R.E. Commussioner

# FUFFOLK COUNTRY DEPARTMENT OF ENVIRONMENTAL CONTROL



1324 Motor Parkway

Hauppauge N. Y. 11787 (516) 234–2622

# NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date: Tan. 2, 1675

Presented Mig. Co.

32 Alten Slva. T. minguale, . . Y. 11735

Genilemen:

ŀ. .

1.copper - 3.3 mg/1

6.

d.Chromina - 50 mg/1

7.

1.Cadmin - 0.03 mg/1

8. 9.

10.

The acceptable limits on each of these parameters according to New Yor. State proundwater Standards are as follows:

· .copper - 0.4 4./1

6.

'-Chromide - 1 /9/1

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1. Cadmius - 0.02 05/1

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#### SUFFOLK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL



1324 Motor Parkway

Hauppauge N. Y. 11787 (516) 234-2622

### NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date	Oct. 30,	1975	<del></del>			
•						
	red Plating en Blvd.	Corp.				

Gentlemen:

Farmingdale, N.Y. 11735

On Oct. 15, 1975 samples of your industrial waste were taken from your side trough . Upon analysis, the following parameters were found to be unsatisfactory:

- Total Chrome 6.6 mg/l 6.
- 7. Cadmium -0.04 mg/1
- 8. 3.
- 4.
- 10.

The acceptable limits on each of these parameters according to New York State Groundwater Standards are as follows:

- 1. Total Chrome 1 mg/1 6.
- 2. Cadwium -0.02 mg/17.
- 8. 3.
- 4. 9.
- 10.

Please see that these conditions are corrected as soon as possible. If you have any questions or need any assistance, please do not hasitate to contact this office.

Vary truly yours,

Ny ar Mart Talk Parti Maria Crist (a. g. )

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MEN TO RK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# NYS INDUSTRIAL INSPECTION AND STATUS REPORT FORM

Permi Locat		. :	47-0300	vd. Poder 156	Date Previo R W.Q.	e of Inspect e(s) of Prev Inspections Inspector Receiving Wa Classification	vious on(s); or(s): aters: cr ation: G	endertee A Kan
Compa	any Re	epresent	cative(s),	Title (s):	John Y	Surg		
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g yer tr	(h)	Contin	uity of Ope	eration:	Bato	chS Continuo		·
(2)	EFFLU	ENT LD	ATTATIONS \	VIOLATIONS (	Based up	on Self-Mo	nitoring	Data)
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	840	;-, .	4. 24.		. 4 - 3 - 4	100	e hind	16. K. K.

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(c) (d)	Wastewater Flow: 100 general Measuirng Device used for Wastewater Characteristics Type of treatment units an and verify with company):	islant odoughtund all by a like	ced and to to determine
			· •
(e)	Appearance of Effluent(s):	<ul><li>(2) foam</li><li>(3) floating solids</li><li>(4) Suspended</li></ul>	(5) color (6) Temper- ature (7) Odor
(f)	Appearance of Receiving waters:	Solids (1) visible oil (2) foam (3) floating solids (4) turbidity (5) sludge deposits	(8) other
(a) (b) (c) (d)	Wastewater Flow:  Mastewater Flow:  Measuring Device used for Mastewater Characteristics  Type of treatment units and and yerify with company):	Flow: 1 122 : c. o c. o c. o Som construct	ture Taken:
(e)	Appearance of Effluent(s):	<pre>(2) foam (3) floating solids (4) suspended</pre>	(/) odor
(f)	Appearance of Receiving waters:	solids (1) Visible oil (2) foam (3) floating solids (4) turbidity (5) sludge deposits	(8) other (5) color (7) temper- ature (8) odor (9) other
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Page 3 of 6 Inspection & Status Permit No.

# (3) COMPLIANCE

- (a) Is company complying with schedule of compliance? No
- (b) What is the current projection of the company regarding compliance with future dates in Compliance Schedule?

  His dame passed as though a replication
- (c) Is company complying with any additional compliance requirements such as a special report submittal to the proper regulatory agency? It is additional regularity additional compliance requirements such as a special report submittal to the proper regulatory agency? It is additional compliance requirements such as a special report submittal to the proper regulatory agency?
- (d) Has company notified the proper regulatory agency of any non-compliance with permit conditions? \*\*(a)
- \*(e) Has company requested modification of any permit conditions other than permit sampling schedules?
- \*(f) Are any modifications appropriate? 🐪

# (4) SELF-MONITORING PROGRAM

- (a) Does quantity of reported self-monitoring data and signing official comply with requirements of permit?
- (b) What is the apparent quality of plant records that are required under the conditions of the permit? The permit of the permit
- (c) If net values are applicable, is the surface water intake sampled and analyzed? Let opposite the
- (d) Is there any additional monitoring being performed by the plant that has not been reported? If yes, what parameters and frequency is involved and what conclusions can be drawn from data?
- (a) Do sampling locations appear to be edaquate to obtain representative acceptes?
- (f) Has a country of a diffied exist eat on pling point used for each discharge give by providing a clatter of it wildings of
- (i) I will be a set of the first water of the first of

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Page 4 of 6
Inspection & Status
Permit No:

- (h) In your judgement, do sampling procedures, frequency and type of sample typify plant's daily discharge (i.e. are maximum production periods, batch discharges, etc. reflected in monitoring data)? For applicable
- (i) Does plant perform its own analysis? where the state of the laboratory is analysis contracted to?

  If yes, what is the appearance of plant's laborabory?
- (j) Do all sampling and analytical methods conform to the guidelines published pursuant to Section 304(g) of 1972 FWPCAA?
- (k) Has plant requested modification to permit sampling schedules?
- (1) Are modifications appropriated?

#### (5) MISCELIANTOUS

- (a) Did the permit application truly represent conditions at the plant site?
- (b) Are any of the following toxic pollutants or compounds containing them, being discharged that would require modification of the permit: No < Yes (Chack those Applicable)</p>

Aldrin	•	DDE		
Dieldren	The same same same same same same same sam	DDT	•	
Benzidine D		Endrin		
Cadmium		Mercury		
Cyanide		Polycalorinated	biphenyls	
DDD (TDE)		Tokaphane		

If yes, what modifications are necessary?

(c) Is sludge being generated at plant? 1966 Gy ledge If yes, is plant reporting on its disposal? If sludge liquidal is at plant site, is there any visual evidence or pareds associated with entry of pollutants into emilian on grand asters? If not at plant, where is the disposal site, and is it comptable to regulatory opensits?

MEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Page 5 of 6
Inspection & Status
Permit No:

- (e) Is there any discharge of unreported contaminated storm runoff?

  Yes Storm water contaminated by minutives waste to be a few to the contaminated by minutives waste to be a few to the contaminated by minutives waste to be a few to the contaminated by minutives waste to be a few to the contaminated storm runoff?
- (f) Is the treatment system maintained in good working order according and operated efficiently? Not explicable the treatment
- (h) Have all bypasses of waste treatment facilities been eliminated:

  If not, why? If not, is flow monitoring installed in bypass?
- (i) Are there any obvious air emission, noise, radiation, pesticides, or solid wastes problems at the plant? What are they? (1) If yes, send copy of this report to the appropriate personnel.
- (j) Does plant require a Spill Prevention Control Countermeasure Plan? : SPCC plan is required if the permittee stores more than;

1. 1,320 gallons of oil above ground;

2. 660 gallons of oil in a single container above ground;

3. 42,000 gallons of oil underground.

If so, is the plant approved by a licensed P.E.?

Inspection & Status Permit No.

# AND RECOMMENDATIONS

Violations and/or Problems

GA SPDES Compliance selectules victated

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Recommended Action

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Inspector Signature:

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DISTRICT - DOCKET NOS.	[ 1-6151 608c(+(3)
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Tople of the State ( Defendant(s)	DEFENDANTS IN CUSTORY
of New York	FROM DATE & HOUR TO DATE & HOUR
No (Complainant)James H. Pim	, , , ,
ental Control being July sworm, says that on dates set forth below about	
32 Allen Blvd., Farmingdale Town of	Babylon
County of Suffolk, State of New York, the defendant(s)Preferr	ed Plating Corporation,
Allen Elvd., Farmingdale and John Young, acti	ng on behalf of said
defendant at the same address	
wrongfully, intentionally, knowingly, watherwayn xxdx and knowingly,	MXMXXX committed the offense(s) of:
illfully violating Article III, section 2(a) of	the Suffolk County
Sanitary Code.	
the that: 9:30 a.m.  The the fifteenth day of Cotober, 1975, at the place defendants as owner, lessee or tenant of any programmer, place, constructed or maintained a private or ystem, pipe, or drain so as to expose or dischaster of any other deleterious liquid or matter therefore the ground, or exposed to the atmosphere so as to exply of drinking water, to wit, at the time and eleting Corp. as tenant of the above premises and expose the contents therefrom to the atmosphere system composed of pits, which were cracked allowed the deleterious liquid contained therein so as the supply of drinking water.  (SEE RIDER)  **This complaint is based on (personal knowledge) **Example of the composed of pits of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is based on (personal knowledge) **Example of the complaint is p	perty, dwelling, building individual sewage disposal arge the sewage contents rom onto the surface of condanger any source or d place above Preferred d John Young acting on private drain so as to and further, said drain wing a discharge of condanger the source
tached Esworn deposition(s) of Louis Copertino	
dated 6/25/76 D E the attached laboratory report of th	e Suffolk County Police Department,
dated	
D Warrent Requested **	al Summons Dequested
SWOEN TO BEFORE ME	
A de la california de la california de desenva esta la combinada de la combinada de la combinada de la california de la calif	and the second of the second o

#### Count #2

in that: at 2:30 p.m. on the eighteenth day of June, 1976, at the blace above stated, the defendants as owner, lessee or tenant of any property, dwelling, building or place, constructed or maintained a private or individual sewage disposal system, pipe, or drain so as to expose or discharge the sewage contents or any other deleterious liquid or matter therefrom onto the surface of the ground, or exposed to the atmosphere so as to endanger any source or supply of drinking water, to wit, at the time and place above Preferred Plating Corp. as tenant of the above premises and John Young acting on behalf of said corporate tenant, maintained said private drain so as to expose the contents therefrom to the atmosphere and further, said drain system composed of pits, which were cracked allowing a discharge of the deleterious liquid contained therein so as to endanger the source or supply of drinking water.

STATE OF NEW YORK) ) ss.: COUNTY OF SUFFOLK)

AFFIDAVIT

Louis & Contino

LOUIS COPERTINO, being duly sworn, deposes and says: THAT I am employed by the Suffolk County Department of Environmental Control as an Environmentalist II.

THAT on the fifteenth day of October, 1975 at 9:30 a.m. during the course of my duties I visited the Preferred Plating Corporation at 32 Allen Boulevard, Farmingdale, N.Y.

.THAT at the time and place above stated Preferred Plating Corp. as tenant of the above premises and John Young acting on behalf of said comporate tenant, maintained a private drain so as to expose the contents therefrom to the atmosphere and further, said drain system composed of pits which were cracked, allowing a discharge of the deleterious liquid contained therein so as to endanger the source or supply of drinking water.

Swown to before me this 25th day of June, 1976

Tent ment in 1982 A

UNTER OF FILE THE WAR

#### DEPARTMENT OF ENVIRONMENTAL CONTROL

TO: . FOR THE RECORD

DATE: June 22, 1976

FROM: Roy Gilbert

SUBJECT: Preferred Plating Corp.

32 Allen Blvd., Farmingdale

On Friday, June 18, 1976 James Pim and I visited Preferred Plating Corp. for the purpose of inspection and sampling.

On Feb. 18, 1976 a compliance conference was scheduled with Mr. Young of Preferred Plating. At that time he was told to take the necessary steps to leak-proof and seal the large pits at the rear of his plant, which at that time contained a few inches of containated water. Since this time, although all necessary approvals had been given, no action had been taken by Mr. Young and in fact, conditions have worsened.

During our inspection of June 18th, we noticed several <u>feet</u> of water in each of the pits. The water appeared greenish in nature. In addition, there was a massive oil spill in the back of the plant resulting from an accident during a recent oil delivery. The spill is conservatively estimated at a few hundred gallons. Several hundred square feet of earth were covered by standing oil puddles or were totally oil soaked. In addition, the southeast pit contained about 6" of oil on top of the water.

Since our last contact with Mr. Young prior to June 18, 1976, we learned that he sold the building and is renting now from the new owner. The new owner hauled a tank from the property containing industrial waste, which was supposed to be disposed of by an approved scavenger. The final disposal point of this waste is presently unknown.

All discharges from the plant empty into a pit, which leads to a trough. These holding facilities appear to be leaking occasionally into the large pits, which are cracked badly and allow the leaching of the industrial discharges into the groundwater.

According to Mr. Donnelly's engineering report, the minimum water production would be 700-800 gal/month. It would be very difficult to hide this volume of water over a year or more of collection, yet Mr. Young has done so. This leads to the conclusion that there must be some discharge via leaks in all holding facilities.

To: FOR THE RECORD
Re: Preferred Plating Corp. - 2 - June 22, 1976

The conditions in the interior of the plant are abhorrent. Most of the piping is not exposed enough to be examined as to its conditions. The floor under the duck boards is perpetually wet and not exposed for inspection of its condition. It is likely there may be many leaking pipes in the plant and leaks through cracks in the floor.

Due to violation of the compliance schedule in the SPDES permit, disregard of recommendations at the compliance conference, improper control over the haulage of industrial wastes and the continuous permitting of groundwater discharge of industrial waste from the leaking structures at the rear of the property, I recommend further enforcement action resulting in substantial punitive fines and criminal action under the Suffolk County Sanitary Code, if possible.

Samples were taken at the time of our inspection.

Find attached a diagram of the holding pit situation at Preferred Plating.

Roy Gilbert

RG/rt

Att.

cc: A. Orensky, Reg. Att'y., NYSDEC - Region I

# PRETERRED PLATING

Open pines storage. 6-7 standing wold noted in work 4000000 y Trembop woll green water green Elfromly woler green 1 41 From lop 6-18-16 # pite opportunity Il'ourge pils 140 contain oppose 1400 mil war. 411 412 pity contains approx on the 413 tol-1 3000 entities oil

SUFFOLK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL 1324 MOTOR PARKWAY

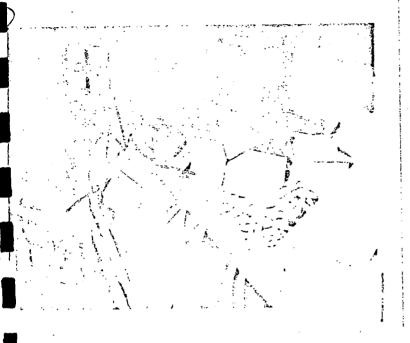
HAUPPAUGE, NEW YORK (234-2622)
INDUSTRIAL WASTE INSPECTION REPORT

Name_ Prehimed Clatian	
Address 12 Killer stad. Fulmer, Lile,	
Date6/1/76	
Name & Title of Contact Nin Yelena	
INDUSTRIES USING SCAVENGER DISPOSAL / Sat. Unsat.	
(1) Records of pickups since last inspection	
(volumes, dates, type of material, name of	
scavenger)	
(2) Amount of waste on hand at present	
(volume, type of material, type of containers)	
( salamo, o, po or material, e, po or containers,	
	•
(3) Equipment in satisfactory repair	
(4) Proper storage conditions	
(5) Backflow prevention	<u></u> -
INDUSTRIES WITH ON SITE TREATMENT	1/2/25
(1) Permit to operate valid & posted	Para Die
(2) Proper sampling w/records of results up-	
to-date and readily accessible	ر المسائل
(3) Light, Ventilation	and the said
(4) Treatment chem. on hand	$C^* : \mathcal{U}^* \to \mathcal{U}$
(5) Qualified operator	
(6) Backflow prevention	1 1/2
(7) Safety equipment	2001
(3) All equip. in satisfactory repair	
(9) Sludge holding and disposal. (10) Effluent disposal & access for sampling	
(11) Proposed changes	
VIII TEOPOSER CHARGES	
Comments: Chathartan on mila have	123 de la 1
Same State of the Contract of the Contract of Change	<u> </u>
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Company of the compan	pag spr. am man in 1 am 1884.
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and the second	<del></del>
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## PRE FERRED PLATING INC.

32 allEN BLUD FAMING dale.

All PICTURES TAKEN ON 6-23-76- by Louis J COPITINO
THE APPLY 2:00 PM



PIPE DISCHARGING PLATING

\* CONCRETE SUMP CONTINUES

INTO CONCRETE TROUGH

WHICH RONS ALONG SIDE

OF CONCRETE pits.

SAME PKTURE AS ABOUE

Definant angle

### 32 AllEN BLUD FARMINGDALE



SIDE TROUGH CONTAINING

PLATING EFFLUENT. - NOTE OIL

SOAKED GROUND ON SIDE

OF TROUGH.

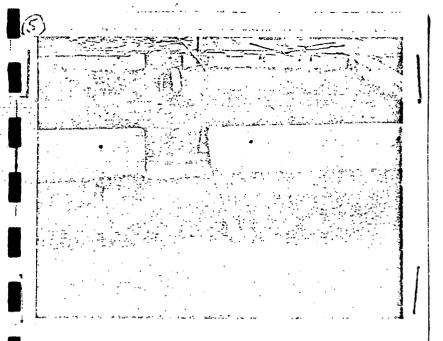
SAME PICTURE AS

ABOUE DATENT ANGLE \*

\* also shown in Both

photographs is open

CONCRETE PITS.



# PICTURE OF SOUTHERN

MOST PIT SHOWING STRUCTURAL CRACKS IN the WALLS X \*FARTHEST WALL IS SIDE OF TROUGH

WESTER VIEW OF Southern

NOTE GREEN COLORED

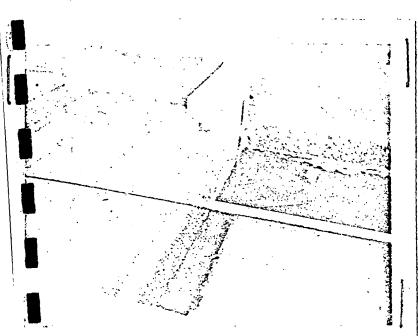
EFFLUENT INONE SECTION

WHICH IS APROX. 2' deep

### PICTURE OF MIDDLE PIT

SHOWING STRUCTURAL CRACK IN SIDE WALL OF TROUBH WHICH CONTAINS PLATING EFFCUENT

PICTURE OF NORTHERN MOST PIT AGAIN SHOWING STRUCTURAL CRACKS IN THE WALL



PICTURE OF SOUTHERN HOST.

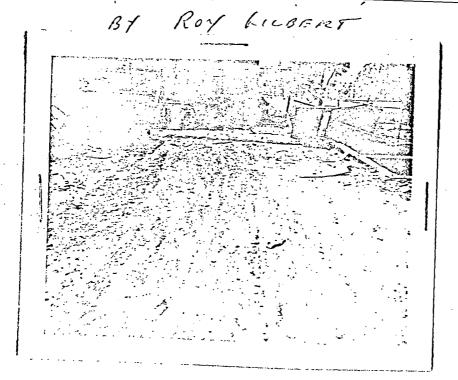
PIT SHOWING GREEN COLORED

EFFLUENT, NONE COMPARTMENT

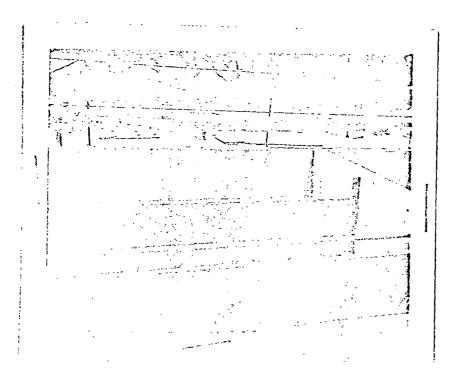
AND OIL IN THE OTHER

COMPARTMENT.

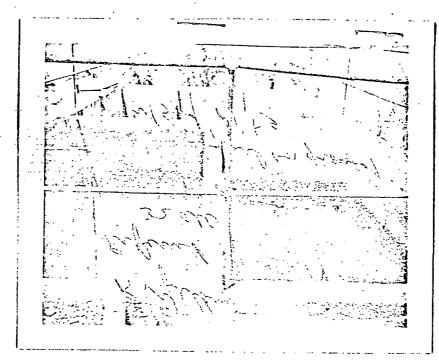
Different angle



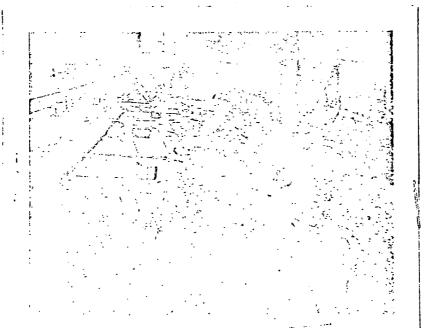
PROOF PICTURE, NOTE OIL ASOUTED RAPING & STANDING OIL ON ROOM O MICHAEL SCOTH SIDE OF PIT PREM - RECTARGULAR FORK ON LEFT, FILLED WITH CIL



PORCE PURPORE RESIDENCE PURCHEROLOGIC WAS RECESSIF MOVE PARE RECORDING OF RESIDENCE PURPORT PROPERTY PORTE PORCE PURCHEROLOGIC CONCERTS OF REAL PROPERTY PROPERTY PORTE PORTE PARE PORTE P by Roy Gilbert



The 2 south pils shown above - note water level approximately 4' from top - rote 1set (east) pit con-taining oil - at least except inches deep.



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### Preferred Manufacturing Company

### Farmingdale, New York

### Industrial Waste Treatment Plant

The industrial maste treatment plant designed for Preferred Kanufacturing Company at Farmingdele, New York will be set up to remove all undesirable wastes from the water before it is discharged to dry wells.

The taste treatment plant consists of three parts:

- 1 Chromic acid recovery -by ion exchange-20 gpm (Max.)
- 2 Cyanide destruction by alkaline colorination-15 apm
- 3 Acid and alkali neutralization by lime-5 gpm

The ion exchange equipment will operate on a continuous basis; the alkaline chlorination and the alkali-acid neutralization will operate on a latch trais. It raximum anticipated flows each batch tank system offers holding capacity for a minimum of 8 hours, thus permitting ample time for proper treatment.

Therever possible, the incoming well water lines will end with a positive air break to prevent any cross connection. Where such an air break is impossible a check valve, relief valve and vacuum breaker will be installed. The private well water system provides water for the manufacturing and plotting operations only. Drinking water is supplied in bottles. The well pumps each have a maximum operation of 1200 GrH. A recent field test indicated the pump on the line operated approximately 75% of the time. One pump is retained as a sound-by.

The inn erobage units, consisting of one ortion exchange unit and the anion exchange unit, will operate in caries to treat the dilate change bed rimes waters. The estion exchange unit will contain 10 assist feat of subfarated obgress type of cation ratio, and the little filter adjoins a cold. This will effectively remove as embielly all outlors from the chromic acid rimes. The enion weekenger will contain 10 cubic feet of a highly basic polystyrane a sin which will remove both strong and weak anions, primarily the anionic group of chromic acid from colution. The union resin is a capacity for removing 2.5 lbs. of GrC3 for oubic foot from visits anter. The anion resin is regentered with a dilate chastic out ston. The eifluent, mineral free, of the interaching of independent with he returned to the plating of a bicus in a chosed system.

The problem of the contract of the will often the contract to the contract of the contract of

When the anion exchange unit is regenerated, sodium dichromate will result in the effluent of the unit. The sodium dichromate is retained for reuse in the plating room. Thus all chromic acid in the plating room will be retained for reuse with none discharged to waste.

The sulfuric acid and ion exchange rinse waters discharged to waste from the ion-exchange equipment will be blended with the acid and alkalis from rinsing operations in the plating room for treatment in the lime neutralization tanks.

The lime neutralization batch tanks will each contain a minimum volume of 5,000 gallons and will be filled alternately. Line will be added from a lime slurry tank as required for neutralization. Leeds and Northrup recording, indicating and controlling pH instruments will assure complete neutralization prior to discharge.

Cyanide solutions will be directed to either of two holding tanks. Each tank holds a minimum of 10,000 gallons which is 25% in excess of enticipated maximum total flow of cyanide solutions in an eight hour day. When a tank is full, the flow from the plating room will be diverted to the alternate tank. The contents of the full tank will then be alternate treated to destroy the eyanide completely to early administrate and nitrogen gases and alkaline precipitates. Then tests show all cyanide destroyed and a chlorine residual is maintained, the contents will be parped to dry wells. Precipitates retained in the actuling basins will be trucked to the Rabylon Town Dump. Air is available for applemental egitation if found to be necessary.

At such time, estimated each 6 Fonths as the precipitate volume narrounts the septime basine will be manually closeed with backets and shovels.

There will be no drain connection in the plating room area which will lead to any point except the floor drainage sump. It is, spillage and other solutions which flow into the drainage sump will be transferred to the appropriate treatment system by a portable type sump pump. Convequently, it will be impossible for any plating room wastes to bypess the treatment system without proper control.

A suitable log of daily operations will be kept on forms furnished by the forfield limity Fallth Department. In addition samples of each has on oil ablantably hall be retained for 30 days, on the premises, restainly the jetus to this of eltering ample, compling point, and date of each pling.

The little of the bound of a to be to a security at the contribute.

\* Only at times when the cation exchange unit is regenerated. It is estimated that this will be at a maximum frequency of once per week, and will be in one 5,000 gallon batch from the lime neutralization system. The remainder of the time it is estimated that the Calcium sulfate concentration will be 75 ppm.

The past purchasing history indicates the following listed average consumption of chemicals in the manufacturing and pleting operations:

Chromic Acid -	830 Lbs./Mo.
Sodium Bichromate-	166 Lbs./No.
Sodium Cyanide-	200 Lbs./Mo.
	17 Lbs./Mo.
Muriatic Acid-	133 Lbs./No.
66° Be' Sulfuric Acid-	29 gals. /Mo.
	E3 Lbs./Mo.
	25 gals./Mo.
• • • • • • • • • • • • • • • • • • • •	
Proprietary Albaline Oleaners	-500 lbs./No.
Cadrium -	300 Lbs./Mo.
Copper -	17 Ltc./No.
Silver -	166 Troy oz./110.
· · · · · · · · · · · · · · · · · · ·	17 Lbs./Ho.
Tin -	50 Mrs/ Mo.
	34 Lbs./To.
Fickel Sulfate -	40 Lbs./Ho.

/ttacked and made a part of this report are drawings and Hanafacturers' Catalogs.

Catalogs: - Fisher & Forter - Chlorination equipment Borr Coupany - Ion Exchange equipment

Drawings: - Sketch Mo. 101 - Flow diagram - weste disposal system

Shetch No. 102 - Source of weste solutions Shetch No. 103 - Equipment and piping for waste treatment

Shotch No. 104 - Ion Exchange equipment piping

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APPENDIX C

Woodward-Clyde Consultants, Inc.

APPENDIX C UPDATED NEW YORK STATE REGISTRY FORM

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

Code: Site Code: 152030	
Name of Site: Preferred Plating Corp.	Region: I
County: Suffolk Street Address 32 Allen Blvd.	Town/City Farmingdale
Status of Site Narrative:	
Site is currently inactive. In 1976 the went out of business. The site occupies now consists of an auto repair facility.	approximately 0.50 acres, and
	·
Type of Site: Open Dump   Landfill   Structure   Treatmen  Lagoon(s	Number of Ponds  Number of Lagoons
Estimated Size 0.05 Acres	
Hazardous Wastes Disposed? Confirmed [	⅓ Suspected □
*Type and Quantity of Hazardous Wastes:	
TYPE	QUANTITY (Pounds, drums, tons, galions)
Solvents, Acids, Heavy Metals	Possibly over 600,000 gallons.
* Use additional sheets if more space is ne	eded.

	mer of Site:	Unknown	···
Address of Current	Owner of Site:	Unknown	
Time Period Site \	Was Used for Hazardous	Waste Disposal:	
		To	<b>, 19</b> 76
(Site is inactive	Inactive 💭 if hazardous wastes we have to August 25, 1979)	vere disposed of at thi	s site and site
Types of Samples:	Air 🦳 Groundwa Surface Water 💭		
	Proposed	Inder Design 💭 Completed 🗀	
Status of Legal Ad	tion: <u>Case in 1976</u>	State	Federal 🗁
Permits Issued:		eal Government $\square$ Mined Land $\square$ We	
Assessment of Env	ironmental Problems:		
	ve disposed of large geaking impoundments.	granites of waste mate	rials via
Assessment of Hea	lth Problems:	·	
Ground water su	pplies may be threate	ned	
Persons Completin	g this Form:		
	s		
Wayne R. Sander			
WCC WCC			

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