US EPA RECORDS CENTER REGION 5
482069

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

PERMIT NO.: 1983-EP-1710 DATE ISSUED: March 29, 1983

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS LOG NUMBERS: 1710-83
PREPARED BY: Bunker Ramo, Eltra Corp.

SUBJECT: AMPHENOL CONNECTOR DIVISION, BROADVIEW, COOK COUNTY (MSDGC -- WSW -- STP) -- Industrial Pretreatment Facility

PERMITTEE TO OPERATE
Bunker Ramo, Eltra Corp.
2801 South 25th Avenue
Broadview, Illinois 60153

Permit is hereby granted to the above designated permittee to operate water pollution control facilities described as follows:

Industrial pretreatment facility consists of cyanide destruction tank, chrome reduction tank, neutralization tank, clarifier filter press and necessary appurtenances to provide treatment to electroplating wastewater with discharge to an existing 12 inch sanitary sewer, thence tributary to the MSDGC -- WSW -- STP (DAF = 288,000 GPD, 2,880 P.E.).

This Operating Permit expires on March 15, 1988.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: The operator of the herein permitted facility shall be certified by this Agency.

SPECIAL CONDITION 2: The sludge produced by this facility shall be disposed of in an Agency approved manner.

SPECIAL CONDITION 3: The issuance of this permit does not relieve the permittee of the responsibility of complying with the general pretreatment regulations (40 CFR 403) and/or any effluent limitations developed pursuant to Sections 301, 306 or 307 of the Clean Water Act.

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:YVS:sd/6755c/13
cc: EPA - Region 2
Records Unit
Permit Section
Mr. Al Griedraitis, MSDGC

DIVISION OF WATER POLLUTION CONTROL

Thomas G. McSwiggin, P.E.
Manager, Permit Section

Ill.532-90009
WPC-146 (10/81)

1710-83

FOR IEPA USE:
LOG #
DATE RECEIVED

RECEIVED

MAR 17 1983

Environmental Protection Agency
WPC — Permit Log In

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

APPLICATION FOR PERMIT OR CONSTRUCTION APPROVAL

WPC-PS-1

1. NAME AND LOCATION:

Name of project: AMPHENOL PRETREATMENT PLANT

Municipality or Township BROADVIEW, IL 60153 County COOK

2. BRIEF DESCRIPTION OF PROJECT: ELECTROPLATING PRETREATMENT PLANT - CONTINUOUS PH ADJUSTMENT AND METAL REMOVAL DISCHARGE TO MSD

3. DOCUMENTS BEING SUBMITTED: If the project involves any of the items listed below, submit the corresponding schedule, and check the appropriate spaces.

PROJECT

Private Sewer Connection	A X	Spray Irrigation	H
Public Sewer Extension	B	Septic Tanks	I
Sewer Extension Construct Only	C	Industrial Treatment or Pretreatment	J X
Sewage Treatment Works	D		
Excess Flow Treatment	E	Cyanide Acceptance	L
Lift Station/Force Main	F	Updating Cyanide Acceptance Form	M
Sludge Disposal	G X	Waste Characteristics	N X

LAND TRUST: Is the project identified in item number 1 herein, for which a permit is requested, to be constructed on land which is the subject of a trust? ____ Yes X No
If yes, item number 6.1.1 herein must be signed by a beneficiary, trustee or trust officer, and a trust disclosure must be submitted (see instructions, item 3).

Plans: Title N/A

Number of Pages

Specifications: Title Number of Books/Pages

Other Documents (Please Specify)

4. THIS IS AN APPLICATION FOR (CHECK):

____ A. Joint Construction And Operating Permit
____ B. Authorization To Construct (See Instructions) NPDES Permit No. ILOO_____ Issue Date
____ C. Construct Only Permit (Does Not Include Operations)
X D. Operate Only Permit (Does Not Include Construction)

5. CERTIFICATIONS AND APPROVAL:

5.1 Certificate by Design Engineer
I hereby certify that I am familiar with the information contained in this application, including the attached schedules indicated above, and that to the best of my knowledge and belief such information is true, complete and accurate. The plans and specifications (specifications other than Standard Specifications or local specifications on file with this Agency) as described above were prepared by me or under my direction.

ENGINEER N/A (EXISTING SYSTEM) NAME REGISTRATION NUMBER SEAL

FIRM

ADDRESS

PHONE NUMBER

SIGNATURE

6. CERTIFICATIONS AND APPROVALS FOR PERMITS:

6.1 Certificate by Applicant(s)
I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board.
I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit.

In addition, I/We hereby certify that (a) I/We have secured all necessary zoning approvals from the unit of local government having zoning jurisdiction over the proposed facility, or (b) that said facility complies with local zoning requirements and further approval is not required, or (c) no unit of local government has zoning jurisdiction over the proposed facility.

6.1.1 NAME OF APPLICANT FOR PERMIT OR AUTHORIZATION TO CONSTRUCT N/A (EXISTING SYSTEM)

STREET CITY STATE ZIP CODE

SIGNATURE

TITLE ORGANIZATION

IL 532-0010
WPC 150 Rev. 4/82

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

LOG # 1710-83

ILLINOIS ENVIRONMENTA PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

SCHEDULE A SEWER CONNECTION N/A (Existing System)

	AGENCY ACCEPTANCE YES	NO	SEE REVIEW NOTES

1. NAME OF PROJECT: _____

2. TYPE OF SERVICE: Residential ___; Commercial ___; Light Industrial (Domestic Waste Only) ___; Manufacturing ___; Recreational ___; Other _____

3. APPROXIMATE TIME SCHEDULE: Estimated Construction Schedule: Start of Construction _____; Date of Completion _____; Occupancy or Operation Schedule: Date Occupancy or Operation Begins _____; 100% Occupancy or Operation to be Reached by _____

4. RESIDENTIAL BUILDINGS: Number of Buildings ___ Total Dwelling Units ___ Estimated Total Population ___

5. NON-RESIDENTIAL BUILDINGS: Number of buildings to be served under this Permit ___; Describe use of Building(s) _____; Principal product(s) or activities _____; Estimated number of employees _____; Estimated number of occupants (transients) _____; Estimated total flow _____ gpd; Estimated Population Equivalent (One Population Equivalent is 100 gallons of sewage per day, containing 0.17 pounds of BOD_5 and 0.20 pounds of suspended solids) flow P.E. _____; BOD P.E. _____; Suspended Solids P.E. _____.

6. Total flow for this project: DAF _____ GPD; DMF _____ GPD.

7. Non domestic liquid waste is ___ is not ___ produced inside the buildings. If liquid wastes other than domestic are produced, submit Schedule N.

8. SUMMARY OF SEWERS:

Pipe size - inches					
Total Length - feet					
Min. slope used - %					
Max. slope used - %					
Min. depth of sewers - feet					
Pipe Material & Specs.					
Joint Material & Specs.					
Total Manholes					
Max. Distance Between Manholes					
Class Bedding					

RECEIVED
MAR 17 1983
Environmental Protection Agency
WPC — Permit Log-In

9. EXISTING SEWER SYSTEM:

9.1 Size and location of the existing sanitary sewer to which this project will connect _____
Existing 12" Sewer

9.2 Has a detailed sewer map been filed with this Agency? YES ___ NO ___

9.3 Tributary to Interceptor(s) MSDGC - WSW STP

Adequate Reserve Transport Capacity? YES ___ NO ___

.4 Tributary to Pump Station(s) _____

Adequate Reserve Pumping Capacity? YES ___ NO ___

10. EXISTING SEWAGE TREATMENT PLANT:

Name of sewage treatment plant this project is tributary to _____

Adequate Reserve Treatment Capacity? YES ___ NO ___

IL 532-0011

FOR IEPA USE:
LOG #
DATE RECEIVED: 1/10-83

RECEIVED

MAR 17 1983

Environmental Protection Agency
WPC — Permit Log In

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

SCHEDULE G SLUDGE DISPOSAL & UTILIZATION

1. Name of Project Amphenol Pretreatment Plant

2. General Information

2.1 Source(s) Electroplating pretreatment sludge

2.2 Volume (on both a wet and dry basis) 36,316 gallons in 1982

2.3 Sludge to be disposed of is: Liquid _____ Dry _____ clay-like consistency

2.4 Sludge is: Aerobically digested _____ Anaerobically digested _____ Heat anaerobically digested _____ Raw _____

Chemically Stabilized _____ Composted _____ WTP Lime Sludge _____ WTP Alum Sludge _____ N/A

WTP Iron Sludge _____ Other _____

Mixture _____ If mixture, describe N/A

2.5 Is the sludge defined as hazardous by State or Federal Law X YES _____ NO; if yes, Basis Chemical analysis

2.6 Is sludge to be stored on site X YES _____ NO; if yes, type of storage, lagoon _____ storage tank _____ other X

capacity of storage, 180 cu. ft. 26 days storage capacity

do not store over 90 days

Methods of Sludge Disposal and/or Utilization

3.1 Land Application ☐ N/A

3.1.1 Indicate the number of dry tons of sludge per year to be disposed by each of the following methods:

Agricultural land _____ Commercial Fertilizer Production _____ Disturbed Land Reclamation _____

Silviculture _____ Horticultural Lands _____ Public Distribution _____ Other _____

3.1.2 Sludge Disposal Site Location. Provide a map (USGS Quadrangle map or Soil Survey Map) showing location.

Name of USGS Quadrangle maps (7.5 or 15 minute) or Soil Survey Map _____

3.1.3 Is sludge to be stored at disposal site? _____ YES _____ NO. If yes, storage volume _____ Cubic Feet

3.1.4 Name(s), address(es) and license number(s) of sludge hauler(s) _____

3.1.5 Provide a copy of sludge user information sheet and signed copies for any known users.

3.1.6 In a narrative description provide operating practices and design features to prevent ground and/or surface water pollution. calculations supporting storage capacity, total acres available, soil characteristics, etc. _____

3.1.7 Basis of Design and Operation: Submit calculations of sludge application rate for agronomic rate, organic loading and metal loading rate.

3.2 Landfilling ☐ on-site XX off-site

3.2.1 Sanitary Landfill ☐ Special Wastes Landfill ☐ Hazardous Waste Landfill XX Other ☐

3.2.2 Name and Location of Landfill(s) Chicago/CID (Chemical Waste Management)
130th & Calumet Expwy, Calumet City, IL. 60409

3.2.3 IEPA Permit Number(s) 03160030

This Agency is authorized to require this information under Illinois Revised Statutes, 1979. Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532-0016
WPC 156 Rev. 1/83

FOR IEPA USE: 17/0-83
LOG #
DATE RECEIVED:

RECEIVED

MAR 17 1983

Environmental Protection Agency
WPC — Permit Log In

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

SCHEDULE J INDUSTRIAL TREATMENT WORKS CONSTRUCTION OR PRETREATMENT WORKS

1. NAME AND LOCATION:

1.1 Name of project Amphenol Pretreatment Plant (Broadview)

1.2 Plant Location

1.2.1 SW ¼ (Quarter Section) 22 (Section) 39N (Township) 12E (Range) Third (P.M.)

1.2.2 Latitude 41 ° 51 ' 10 "North

Longitude 85 ° 51 ' 37 "West

1.2.3 Name of USGS Quadrangle Map (7.5 or 15 Minutes) Berwyn, IL. N4145-W8745/7-5

2. NARRATIVE DESCRIPTION AND SCHEMATIC WASTE FLOW DIAGRAM: (see instructions)

See attachments: Sanitary Sewer - Plot Plan, Sanitary Sewer Sample Stations, Pollution Control Facility - Flow Diagram, Sample Station Flow Rates

2.1 PRINCIPAL PRODUCTS: Electrical and electronic equipment connectors

2.2 PRINCIPAL RAW MATERIALS: Aluminum, Copper, Brass

3. DESCRIPTION OF TREATMENT FACILITIES:

3.1 Submit a flow diagram through all treatment units showing size, volumes, detention times, organic loadings, surface settling rate, weir overflow rate, and other pertinent design data. Include hydraulic profiles and description of monitoring systems.

3.2 Waste Treatment Works is: Batch ____, Continuous X; No. of Batches/day ____, No. of Shifts/day 3

3.3 Submit plans and specifications for proposed construction. N/A (Existing System)

3.4 Discharge is: Existing X; Will begin on N/A.

4. DIRECT DISCHARGE IS TO: Receiving Stream N/A Municipal Sanitary Sewer X, Municipal storm or municipal combined sewer N/A. If receiving stream or storm sewer indicated complete the following:

Name of receiving stream N/A; tributary to ____;

tributary to ____; tributary to ____.

5. Is the treatment works subject to flooding? If so, what is the maximum flood elevation of record (in reference to the treatment works datum) and what provisions have been made to eliminate the flooding hazard? Pretreatment works not subject to flooding.

6. APPROXIMATE TIME SCHEDULE: Estimated construction schedule: N/A (Existing System)

Start of Construction ____; Date of Completion ____

Operation Schedule ____; Date Operation Begins ____

100% design load to be reached by year ____.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

This agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111½, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

FOR IEPA USE:
LOG #: 1710-83
DATE RECEIVED:

RECEIVED

MAR 17 1983

Environmental Protection Agency
WPC — Permit Log In

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

SCHEDULE N WASTE CHARACTERISTICS

1. Name of Project Amphenol Pretreatment Plant

2. FLOW DATA

	EXISTING	PROPOSED-DESIGN
2.1 Average Flow (gpd)	200,000	288,000
2.2 Maximum Daily Flow (gpd)	350,000	432,000

2.3 TEMPERATURE (Ambient) Discharge to MSD.

Time of year	Ave. Intake Temp. F	Avg. Effluent Temp. F	Max. Intake Temp. F	Max. Effluent Temp. F	Max. Temp. Outside Mixing Zone F
SUMMER					
WINTER					

2.4 Minimum 7-day, 10-year flow: N/A cfs N/A MGD.

2.5 Dilution Ratio: N/A ; N/A

2.6 Stream flow rate at time of sampling N/A cfs N/A MGD.

3. CHEMICAL CONSTITUENT Existing Permitted Conditions ___; Existing conditions X ; Proposed Permitted Conditions ___.

Type of sample: ___ grab (time of collection ___); X composite (Number of samples per day 48)

(see instructions for analyses required)

	Constituent	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM DOWNSTREAM SAMPLES (mg/l) (mg/l)
	Ammonia Nitrogen (asN)	NTF	NTF	NTF
	Arsenic (total)	NTF	"	"
	Barium	NTF	"	"
	Boron	NTF	"	"
	BOD_5	NTF	"	"
*	Cd Cadmium	NTF	1.001 PPM	"
	Carbon Chloroform Extract	NTF	NTF	"
	Chloride	NTF	"	"
	Chromium (total hexavalent)	NTF	"	"
*	Cr Chromium (total tribalent) Total Chromium	NTF	6.048 PPM	"
*	Cu Copper	NTF	0.728	"
**	Cn,T Cyanide (total)	NTF	.800	"
	Cyanide (readily released @150°F & pH 4.5)	NTF	NTF	"
	Dissolved Oxygen	NTF	"	"
	Fecal Coliform	NTF	NTF	NTF

WPC-159

TABLE 1

WATER QUALITY ANALYSIS SUMMARY
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 303030

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION					
		MW-2	MW-12	MW-13	MW-15	MW-16D	MW-16S
General Chemistry:							
Cyanide, Total	mg/ℓ	<0.02	<0.02	<0.02	<0.02	<0.02/<0.02[2]	<0.02
Oil and Grease	mg/ℓ	2.9	1.6	2.8	0.9	1.4	1.3
Metals:							
Cadmium	mg/ℓ	<0.01/<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	mg/ℓ	0.13/0.11	<0.01	0.04	0.03	0.02	0.20
Copper	mg/ℓ	0.28/0.28	0.11	0.13	0.11	0.13	0.51
Gold	mg/ℓ	<0.01/<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	mg/ℓ	0.26/0.24	0.08	0.09	0.10	0.08	0.35
Rhodium	mg/ℓ	<0.01/<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/ℓ	<0.01/<0.01	<0.01	<0.01	<0.01	<0.01	0.01

(1) mg/ℓ = milligrams per liter or parts per million.

(2) The indicated parameters were analyzed in duplicate.

RECEIVED
AUG 21 1986
IEPA DLPC

RECEIVED
AUG 21 19[illegible]
IEPA-DLPC

TABLE 3

WATER ANALYSIS SUMMARY
OF VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 303030

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION MW-2	MW-12	MW-13	MW-15	MW-16D	MW-16S
		Concentration µg/ℓ(2)					
Acetone	67-64-1	<10	<10	<10	<10/<10	<10	<200
Benzene	71-43-2	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
2-Butanone	78-93-3	<10	<10	<10	<10/<10	<10	<200
Bromoform	75-25-2	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Carbon disulfide	75-15-0	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Carbon Tetrachloride	56-23-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Chlorobenzene	108-90-7	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Chlorodibromomethane	124-48-1	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Chloroethane	75-00-3	<10	<10	<10	<10/<10	<10	<200
2-Chloroethylvinyl ether	110-75-8	<10	<10	<10	<10/<10	<10	<200
Chloroform	67-66-3	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Cis-1,3-dichloropropene	10061-01-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Dichlorobromomethane	75-27-4	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
1,1-Dichloroethane	75-34-3	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
1,2-Dichloroethane	107-06-2	<5.0	<5.0	10	<5.0/<5.0	<5.0	<100
1,1-Dichloroethylene	75-35-4	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
1,2-Dichloropropane	78-87-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Ethylbenzene	100-41-4	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100

RECEIVED
AUG 21 1986
IEPA-DLPC

TABLE 3
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION MW-2	MW-12	MW-13	MW-15	MW-16D	MW-16S
		Concentration µg/ℓ[2]					
2-Hexanone	591-78-6	<10	<10	<10	<10/<10[2]	<10	<200
Methyl bromide	74-83-9	<10	<10	<10	<10/<10	<10	<200
Methyl chloride	74-87-3	<10	<10	<10	<10/<10	<10	<200
4-Methyl-2-pentanone	108-10-1	<10	<10	<10	<10/<10	<10	<200
Methylene chloride	75-09-2	<5.0	<5.0	62	<5.0/<5.0	<5.0	<100
Styrene	100-42-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
1,1,2,2-Tetrachloroethane	79-34-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Tetrachloroethylene	127-18-4	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Toluene	108-88-3	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
trans-1,2-Dichloroethylene	156-60-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
trans-1,3-Dichloropropene	10061-02-6	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	1800
1,1,1-Trichloroethane	71-55-6	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
1,1,2-Trichloroethane	79-00-5	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Trichloroethylene	79-01-6	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100
Vinyl acetate	108-05-4	<10	<10	<10	<10/<10	<10	<200
Vinyl chloride	75-01-4	<10	<10	<10	<10/<10	<10	[illegible]
Total xylenes	95-47-6	<5.0	<5.0	<5.0	<5.0/<5.0	<5.0	<100

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicate compounds in the Chemical Abstracts Index.

(2) µg/ℓ = micrograms per liter or parts per billion.

(3) The indicated sample was analyzed in duplicate.

TABLE 1

WATER QUALITY ANALYSIS SUMMARY

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION MW-2	MW-12	MW-13	MW-16D	MW-16S
General Chemistry:						
Cyanide, Total	mg/ℓ	<0.02	<0.02/<0.02[2]	<0.02	<0.02	<0.02
Oil and Grease	mg/ℓ	6.3	6.9	9.5	7.5	210
Metals:						
Cadmium	mg/ℓ	<0.005	<0.005	0.014/0.029	0.011/0.014	0.021
Chromium	mg/ℓ	<0.01	<0.01	<0.01/<0.01	<0.01	<0.01/<0.01
Copper	mg/ℓ	<0.01	0.01	0.01/0.01	0.01	0.01
Gold	mg/ℓ	<0.01/<0.01	<0.01	<0.01/<0.01	<0.01	<0.01
Nickel	mg/ℓ	0.07	0.08	0.07/0.06	0.05	0.06/0.06
Rhodium	mg/ℓ	<0.01/<0.01	<0.01	<0.01/<0.01	<0.01	<0.01
Silver	mg/ℓ	<0.01	<0.01	<0.01/<0.01	<0.01	<0.01

(1) mg/ℓ = milligrams per liter or parts per million.

(2) The indicated samples were analyzed in duplicate.

TABLE 2

WATER ANALYSIS SUMMARY
OF VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION				
		MW-2	MW-12	MW-13	MW-16D	MW-16S
		Concentration μg/ℓ[2]				
Acetone	67-64-1	<10	<10	<10	<10	<10
Benzene	71-43-2	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	78-93-3	<10	<10	<10	<10	<10
Bromoform	75-25-2	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	75-15-0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride	56-23-5	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	108-90-7	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane	124-48-1	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	75-00-3	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	110-75-8	<10	<10	<10	<10	<10
Chloroform	67-66-3	<5.0	<5.0	<5.0	<5.0	<5.0
Cis-1,3-dichloropropene	10061-01-5	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorobromomethane	75-27-4	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	107-06-2	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene	75-35-4	<5.0	<5.0	<5.0	<5.0	9.5
1,2-Dichloropropane	78-87-5	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	100-41-4	<5.0	<5.0	<5.0	<5.0	<5.0

TABLE 2
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION				
		MW-2	MW-12	MW-13	MW-16D	MW-16S
		Concentration μg/ℓ[2]				
2-Hexanone	591-78-6	<10	<10	<10	<10	<10
Methyl bromide	74-83-9	<10	<10	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	108-10-1	<10	<10	<10	<10	<10
Methylene chloride	75-09-2	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	79-34-5	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene	127-18-4	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	108-88-3	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethylene	156-60-5	<5.0	<5.0	<5.0	<5.0	2000
trans-1,3-Dichloropropene	10061-02-6	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	71-55-6	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	79-00-5	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	79-01-6	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	<10	<10	<10	<10	<10
Vinyl chloride	75-01-4	<10	<10	<10	<10	800
Total xylenes	95-47-6	<5.0	<5.0	<5.0	<5.0	<5.0

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) μg/ℓ = micrograms per liter or parts per billion.

TABLE 1

WATER QUALITY ANALYSIS SUMMARY
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 84-6756

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION					
		MW-2	MW-12	MW-13	MW-15	MW-16D	MW-16S
General Chemistry:							
Cyanide, Total	mg/ℓ	<0.02	<0.02	<0.02	<0.02	<0.02/<0.02[2]	<0.02
Oil and Grease	mg/ℓ	4.0	8.6	3.2	2.0	2.0	2.5
Metals:							
Cadmium	mg/ℓ	0.043/0.047	0.12	<0.005	<0.005	<0.005	<0.005
Chromium	mg/ℓ	0.41	0.42	0.06	0.06	0.03	<0.01/<0.01
Copper	mg/ℓ	1.1	0.91	0.09	0.18	0.07	0.09/0.09
Gold	mg/ℓ	<0.001/<0.001	0.003	<0.001	<0.001	<0.001	<0.001
Nickel	mg/ℓ	1.2	0.97	0.12	0.20	0.06	0.17/0.16
Silver	mg/ℓ	0.002/0.003	0.007	<0.001	<0.001	<0.001	<0.001
Rhodium	mg/ℓ	<0.005/<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

(1) mg/ℓ = milligrams per liter or parts per million.

(2) The indicated samples were analyzed in duplicate.

RECEIVED
FEB 24 1986
IEPA-DLPC

TABLE 2
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION MW-15	MW-16D	MW-16S
		Concentration µg/ℓ[2]		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	<1.0	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	1[illegible]
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	14
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene[3]	542-75-6	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<10	<10	<10
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	<1.0	1.0	2000
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	<1.0	<1.0	2.5
Vinyl Chloride	75-01-4	<10	<10	850

RECEIVED
FEB 24 1986
IEPA-DLPC

TABLE 2

WATER ANALYSIS SUMMARY
OF VOLATILE PRIORITY POLLUTANTS
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 84-6756

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION MW-2	MW-12	MW-13
		Concentration µg/ℓ[2]		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	<1.0	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene[3]	542-75-6	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<10	<10	<10
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	<1.0	6.7	<1.0
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	<1.0	<1.0	<1.0
Vinyl Chloride	75-01-4	<10	<10	<10

RECEIVED
FEB 24 1986
IEPA-DLPC

TABLE 2 FOOTNOTES

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) μg/ℓ = micrograms per liter or parts per billion.

(3) The indicated compound is incorrectly identified in Part C of NPDES Form 2C as 1,2-Dichloropropylene. However, the sample was screened for the presence of both compounds.

RECEIVED

FEB 24 1986

IEPA-DLPC

TABLE 3

WATER ANALYSIS SUMMARY
OF VOLATILE NON-PRIORITY POLLUTANT COMPOUNDS
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 84-6756

PARAMETERS	CAS NUMBER[1]	SAMPLE IDENTIFICATION					
		MW-2	MW-12	MW-13	MW-15	MW-16D	MW-16S
		Concentration µg/ℓ[2]					
Acetone	67-64-1	<20	<20	<20	<20	<20	<20
2-Butanone	78-93-3	26	<20	<20	<20	<20	<20
Carbon disulfide	75-15-0	<10	<10	<10	<10	<10	<10
2-Hexanone	591-78-6	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	108-10-1	<10	<10	<10	<10	<10	<10
Styrene	100-42-5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	108-05-4	<10	<10	<10	<10	<10	<10
Total xylenes	95-47-6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) µg/ℓ = micrograms per liter or parts per billion.

RECEIVED
FEB 24 1986
IEPA-DLPC

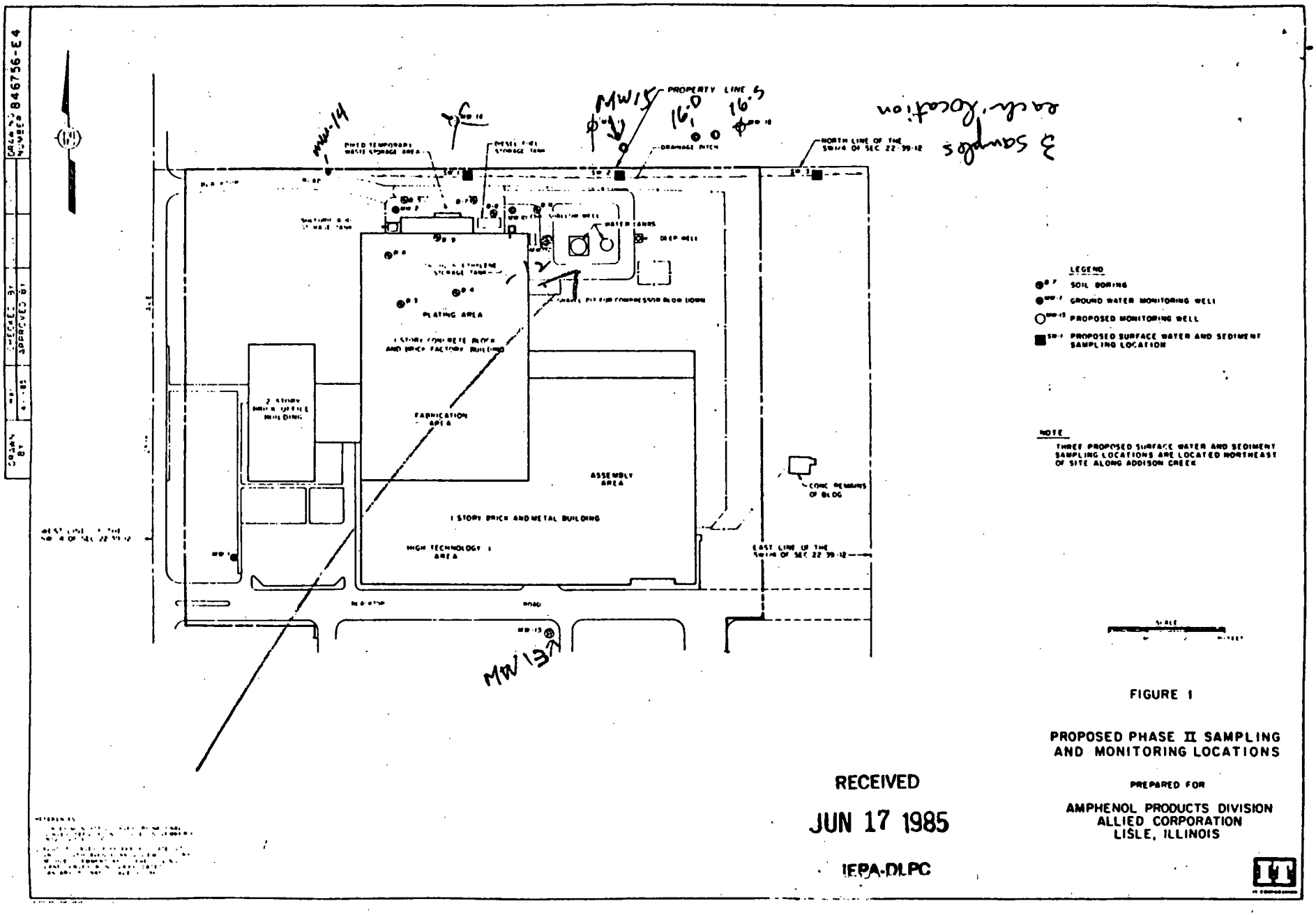

FIGURE 1

PROPOSED PHASE II SAMPLING AND MONITORING LOCATIONS

PREPARED FOR

AMPHENOL PRODUCTS DIVISION
ALLIED CORPORATION
LISLE, ILLINOIS

RECEIVED
JUN 17 1985
IEPA-DLPC

DRAWN BY | CHECKED BY | APPROVED BY | DRAWING NUMBER 846756-E4