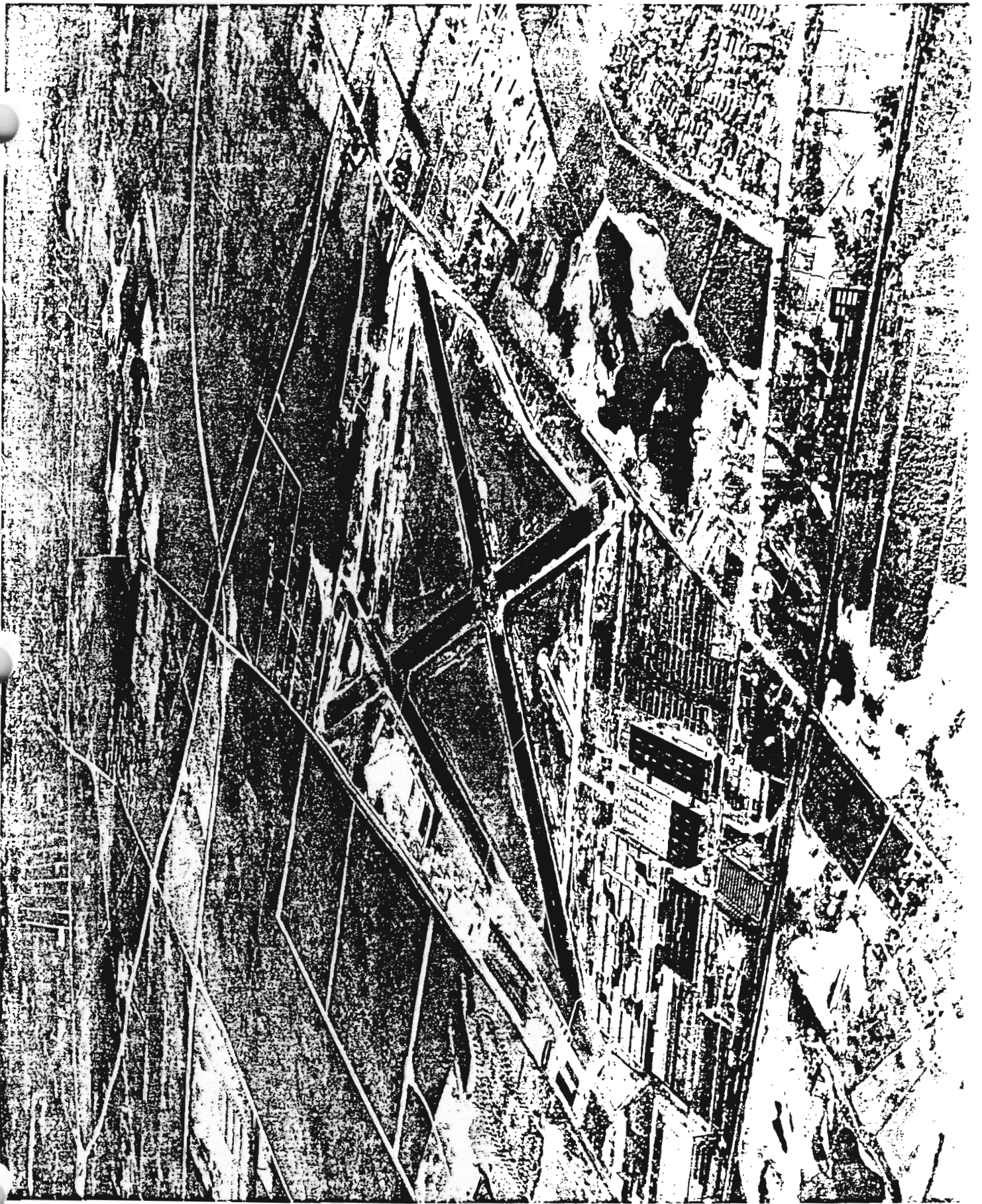
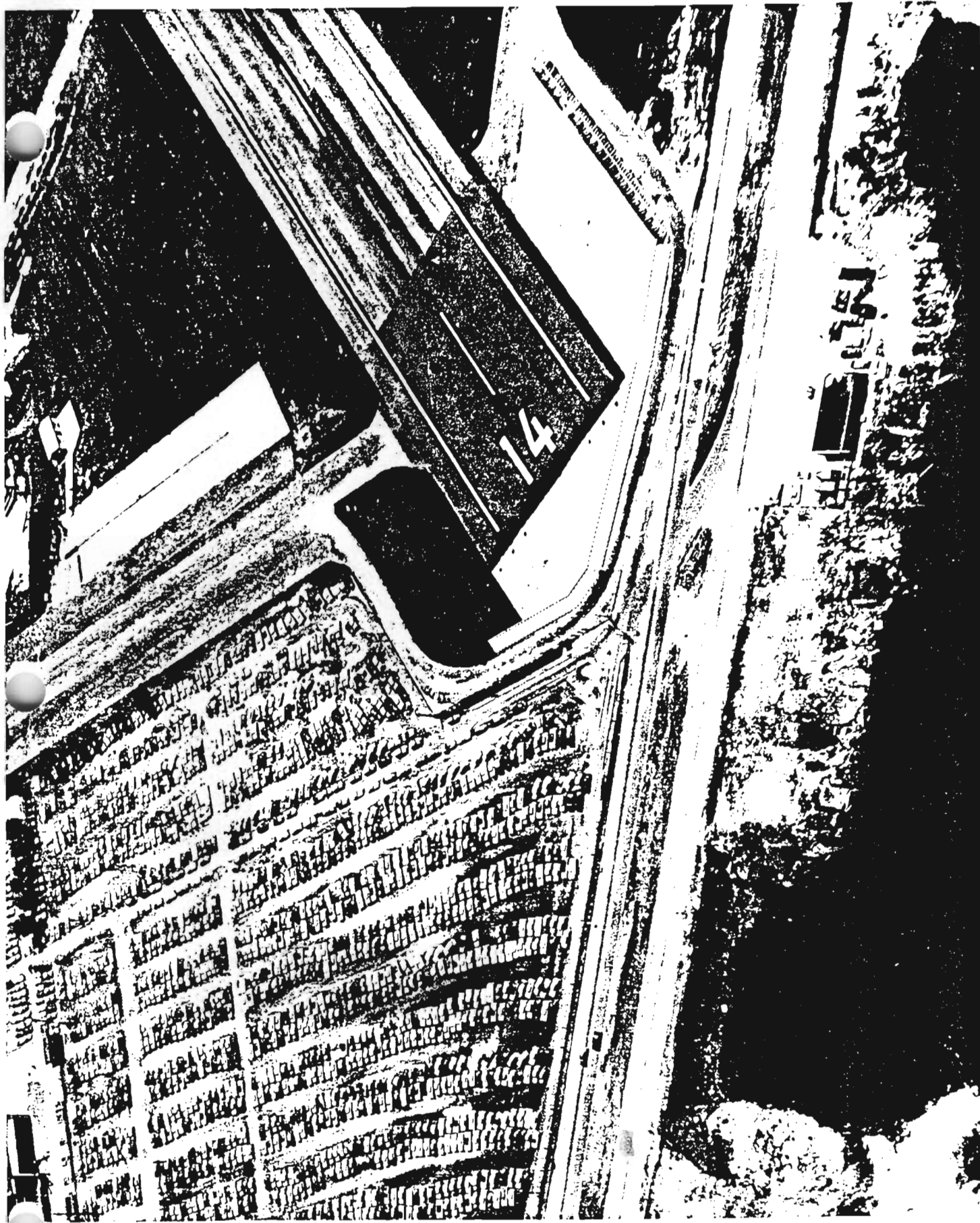


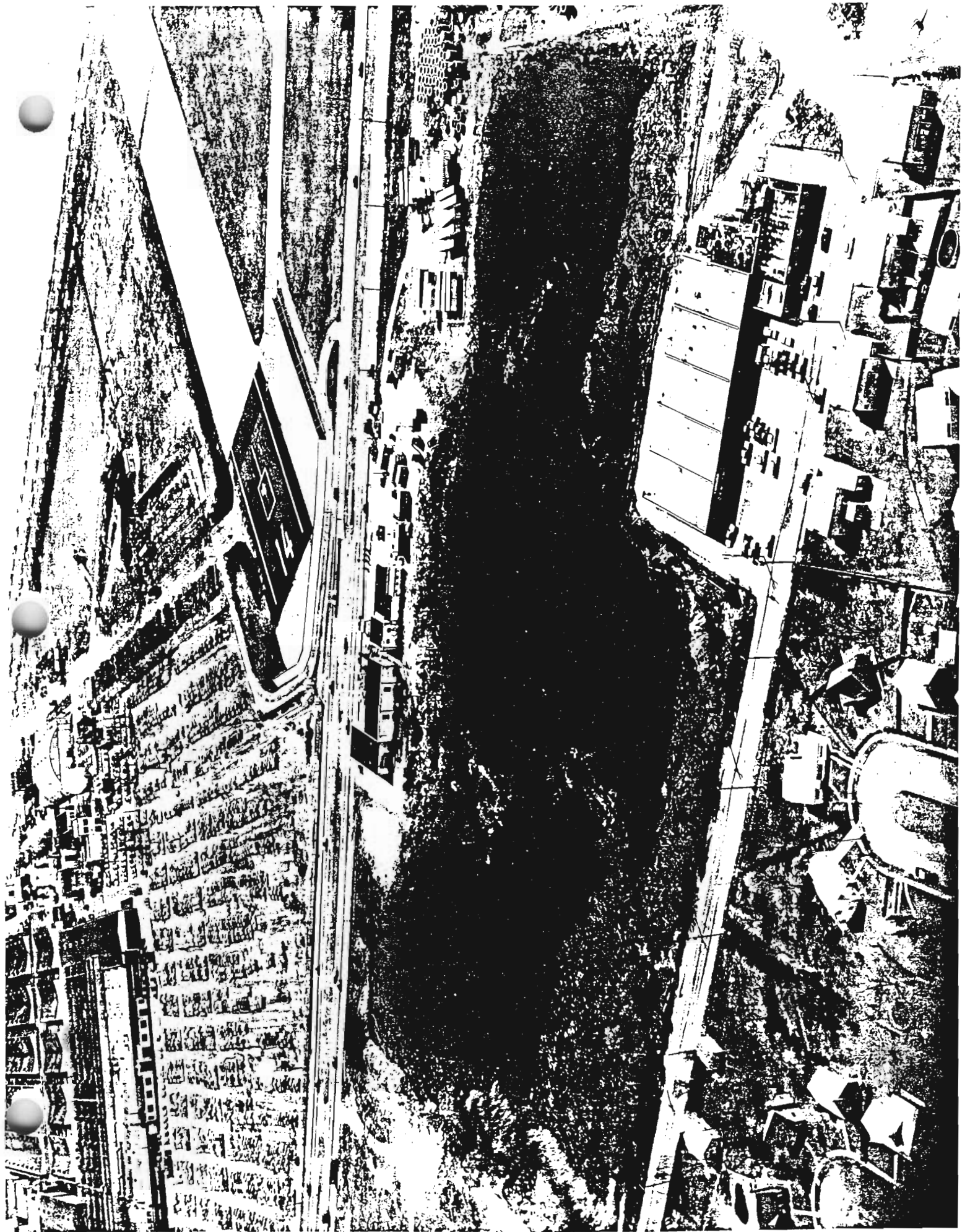
APPENDIX A

AERIAL PHOTOGRAPHS

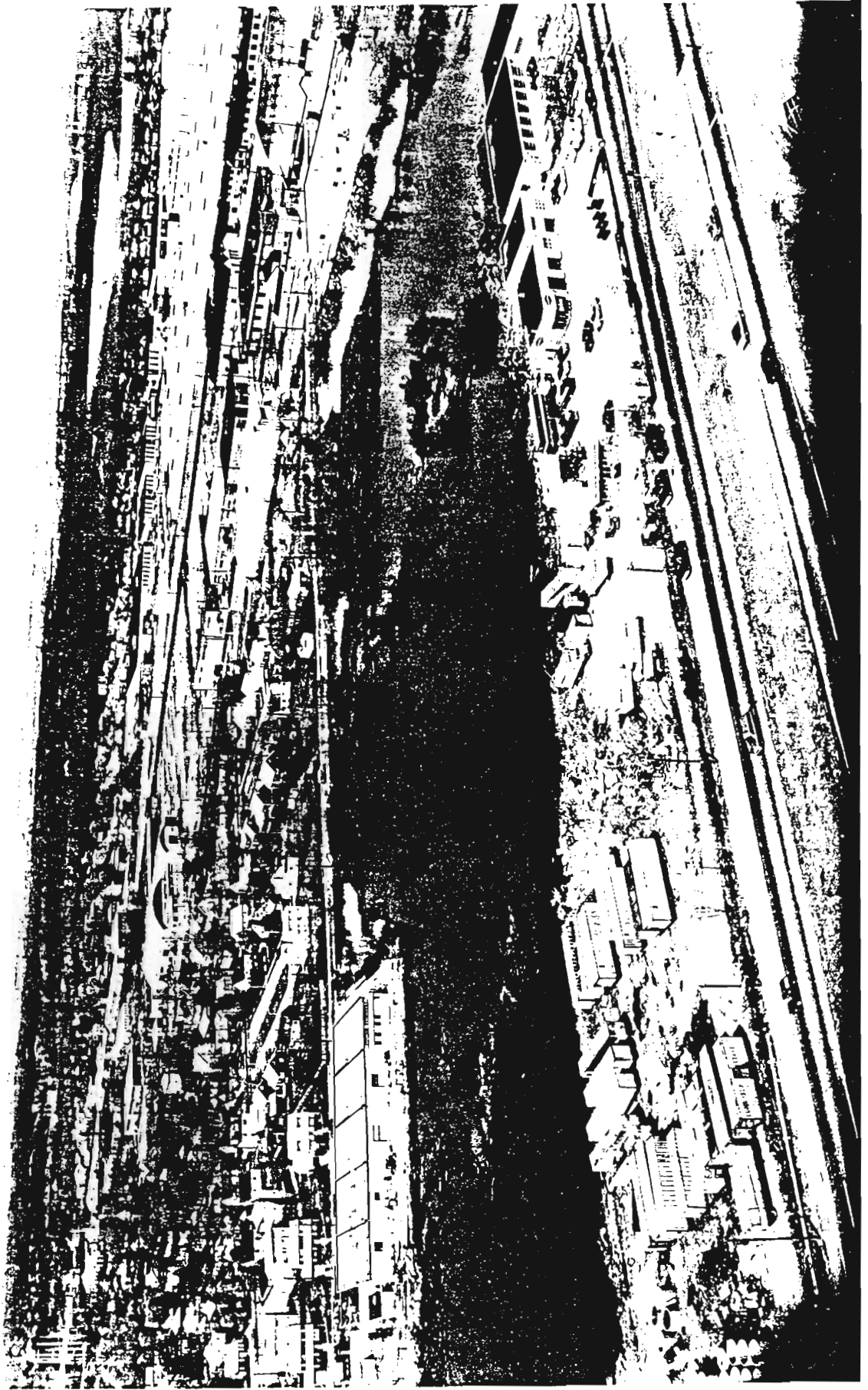




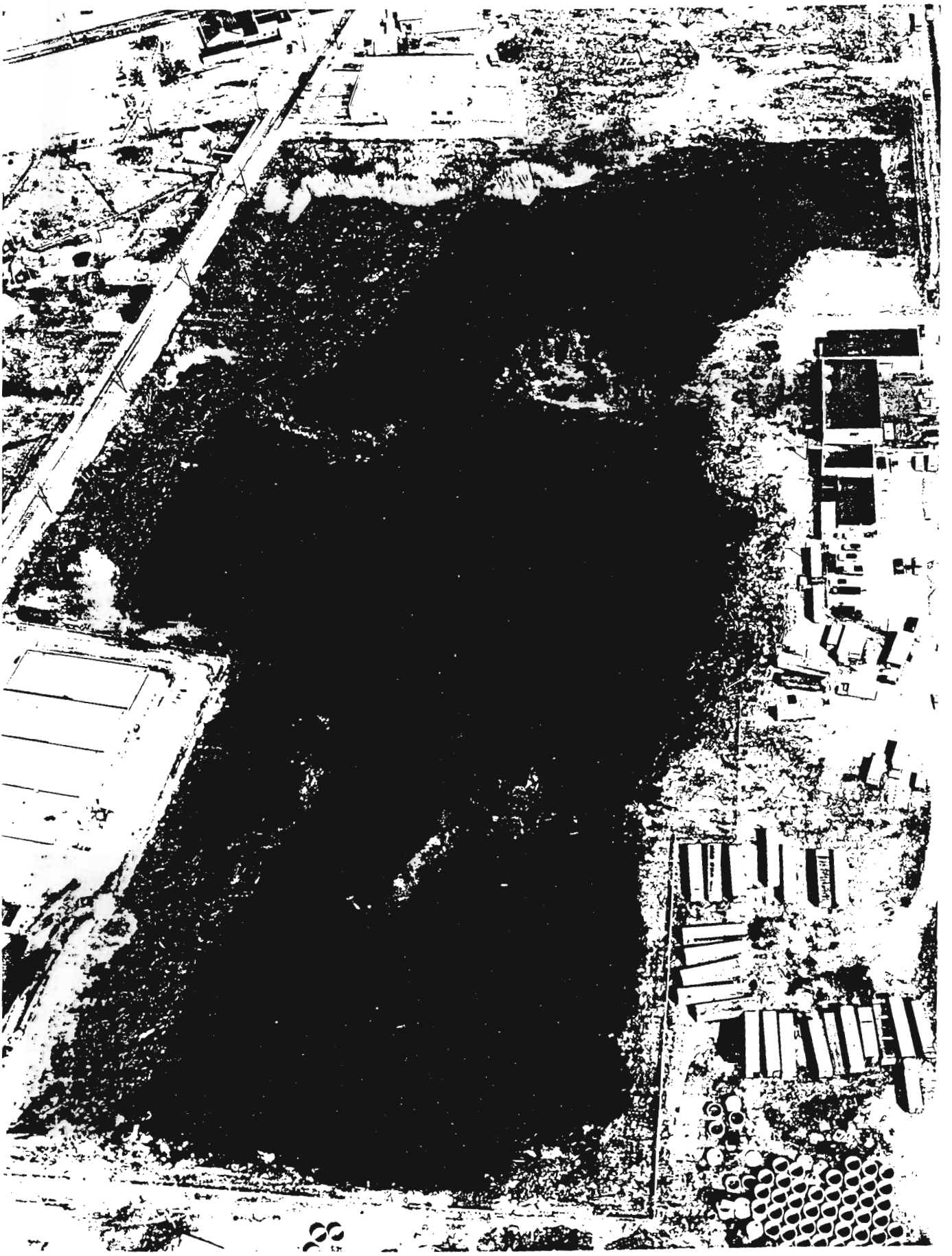




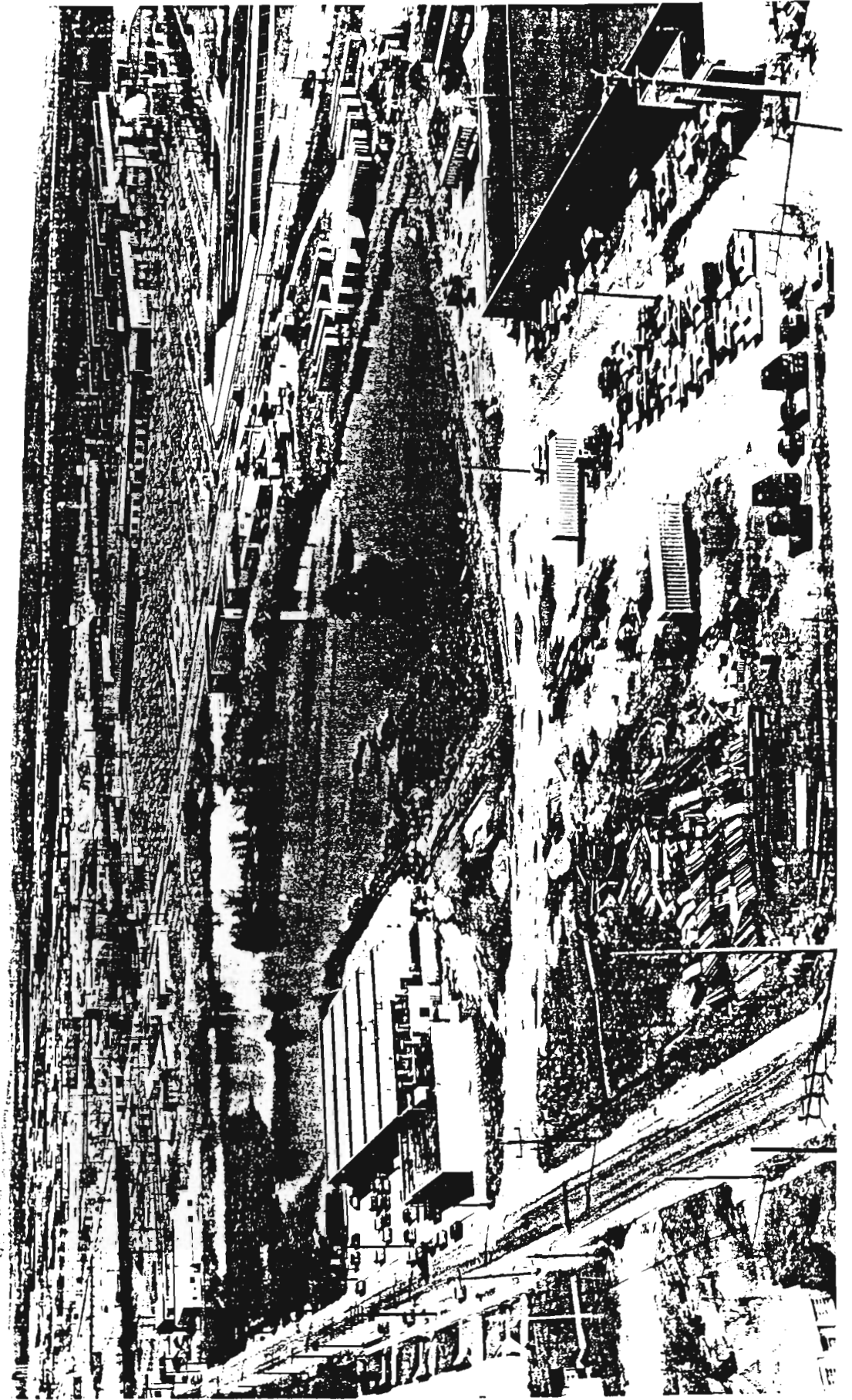
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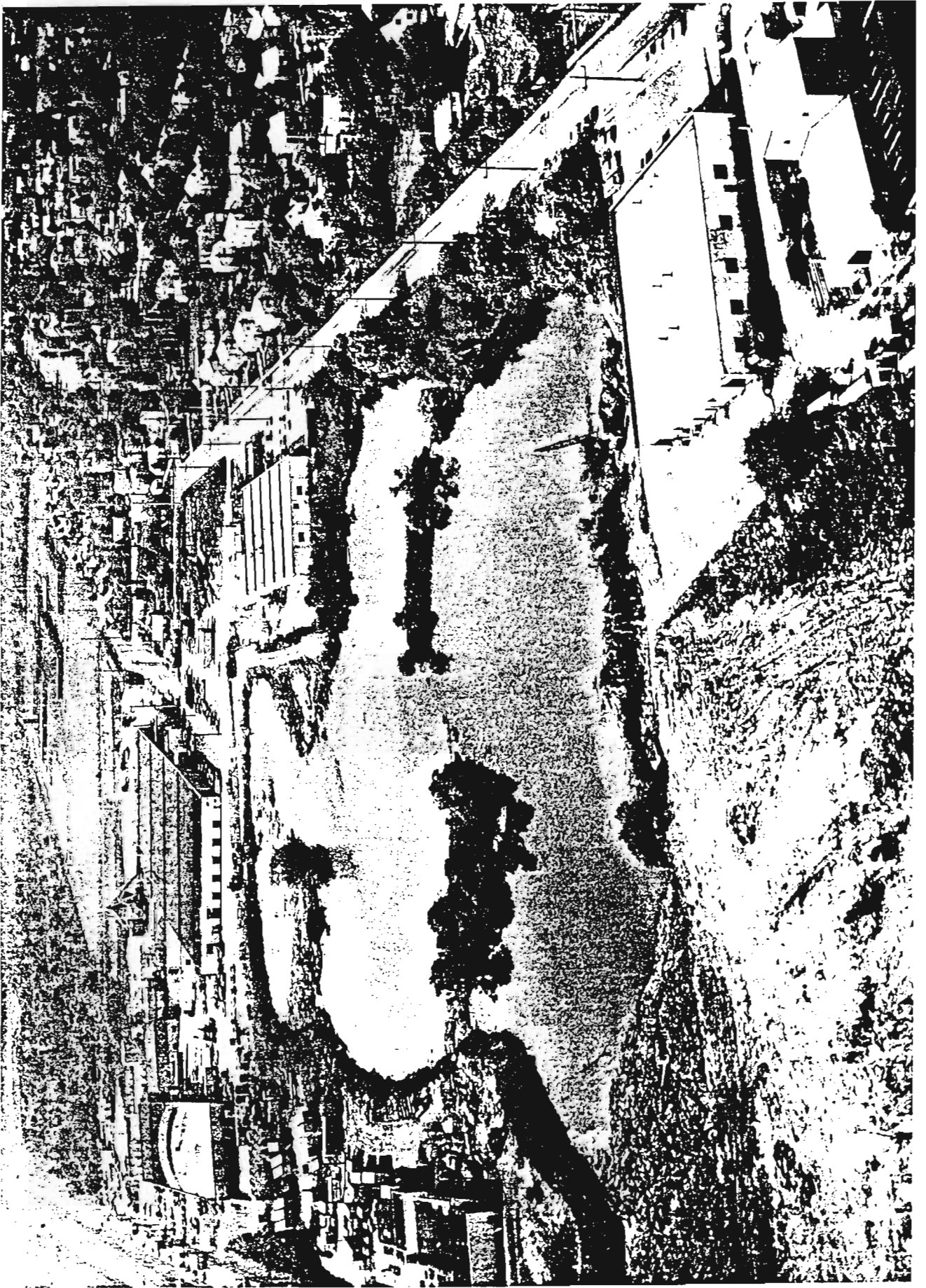
APR 1 1950



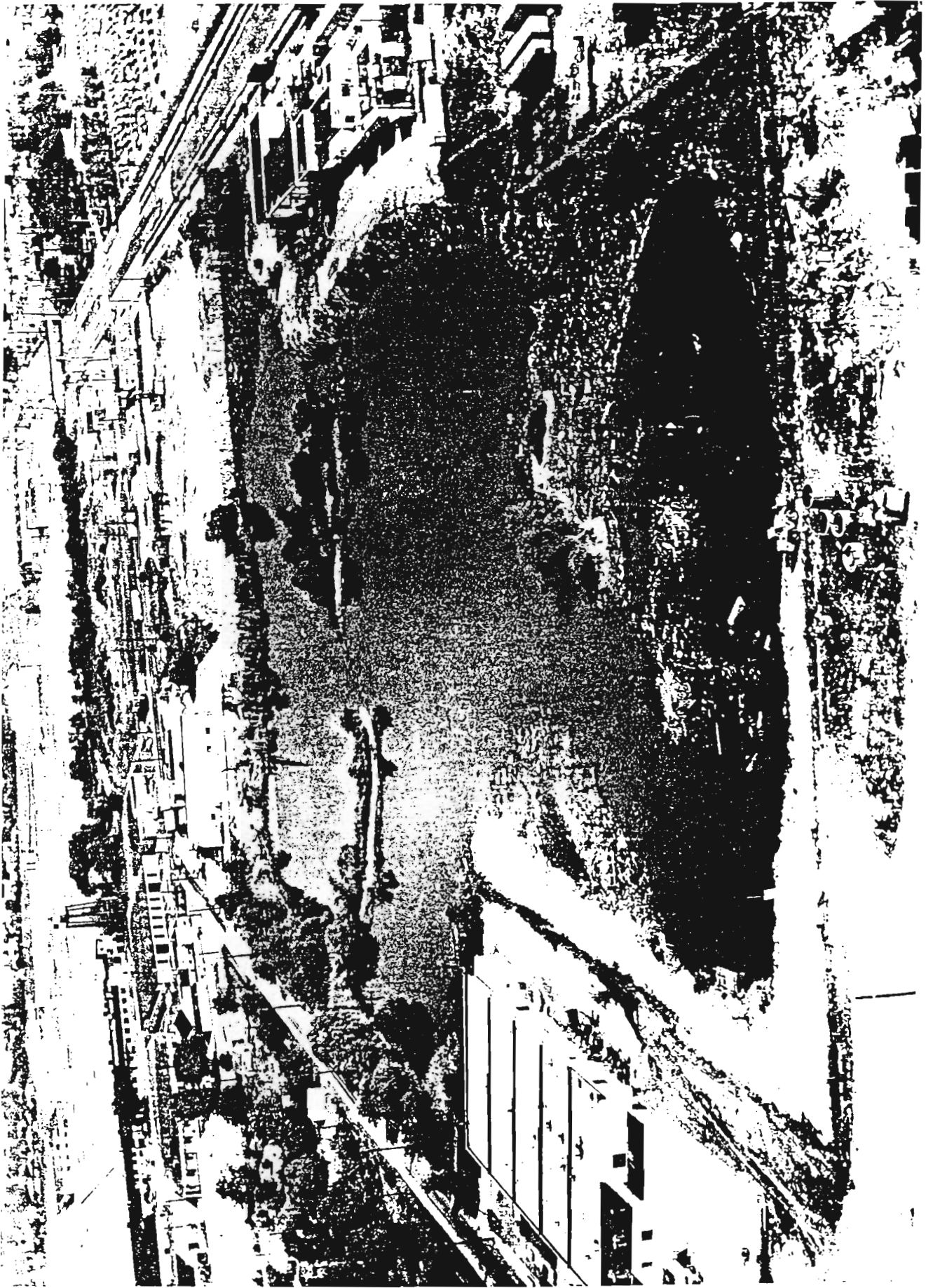
APR 6 1943



SEP 27 1977

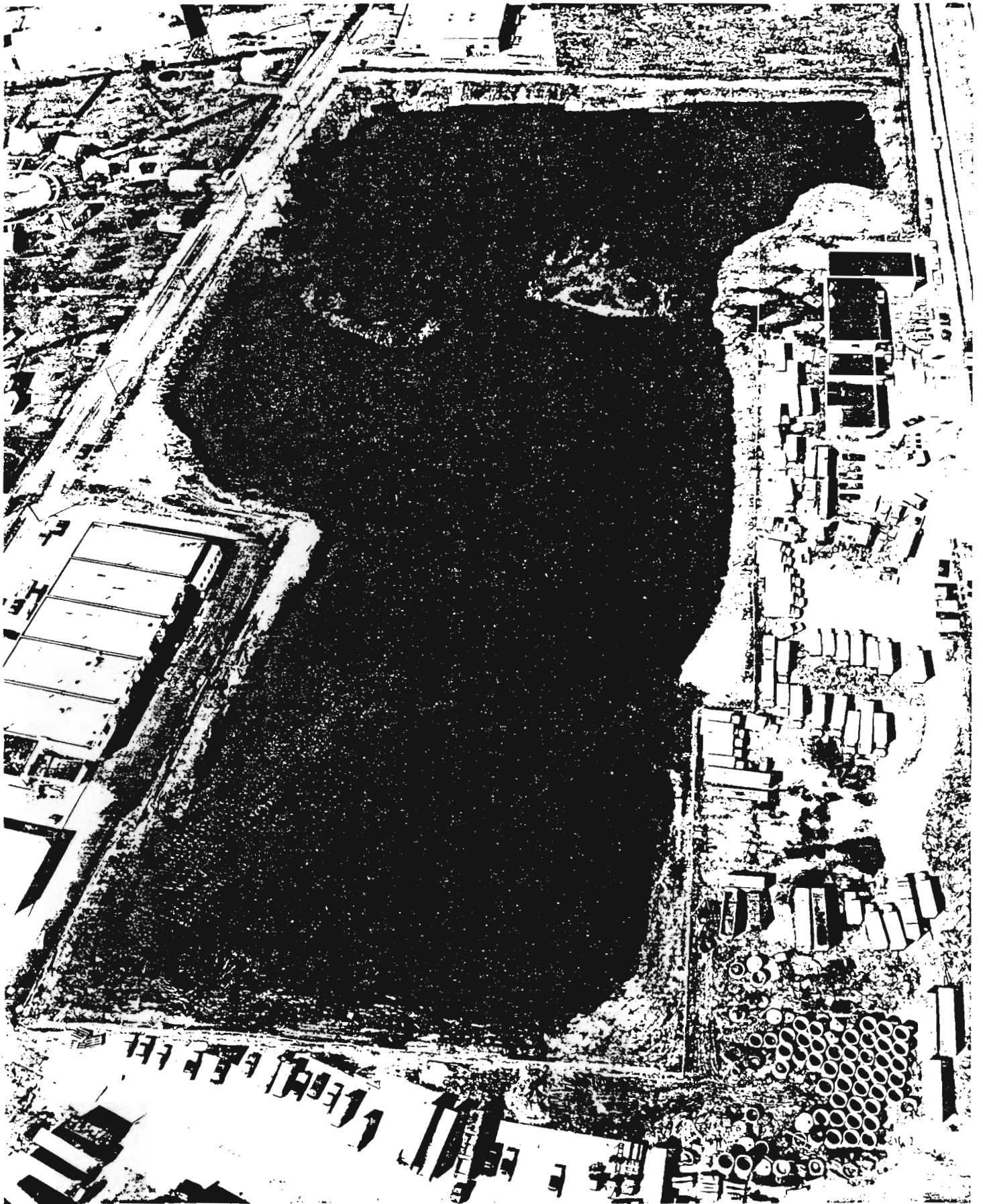


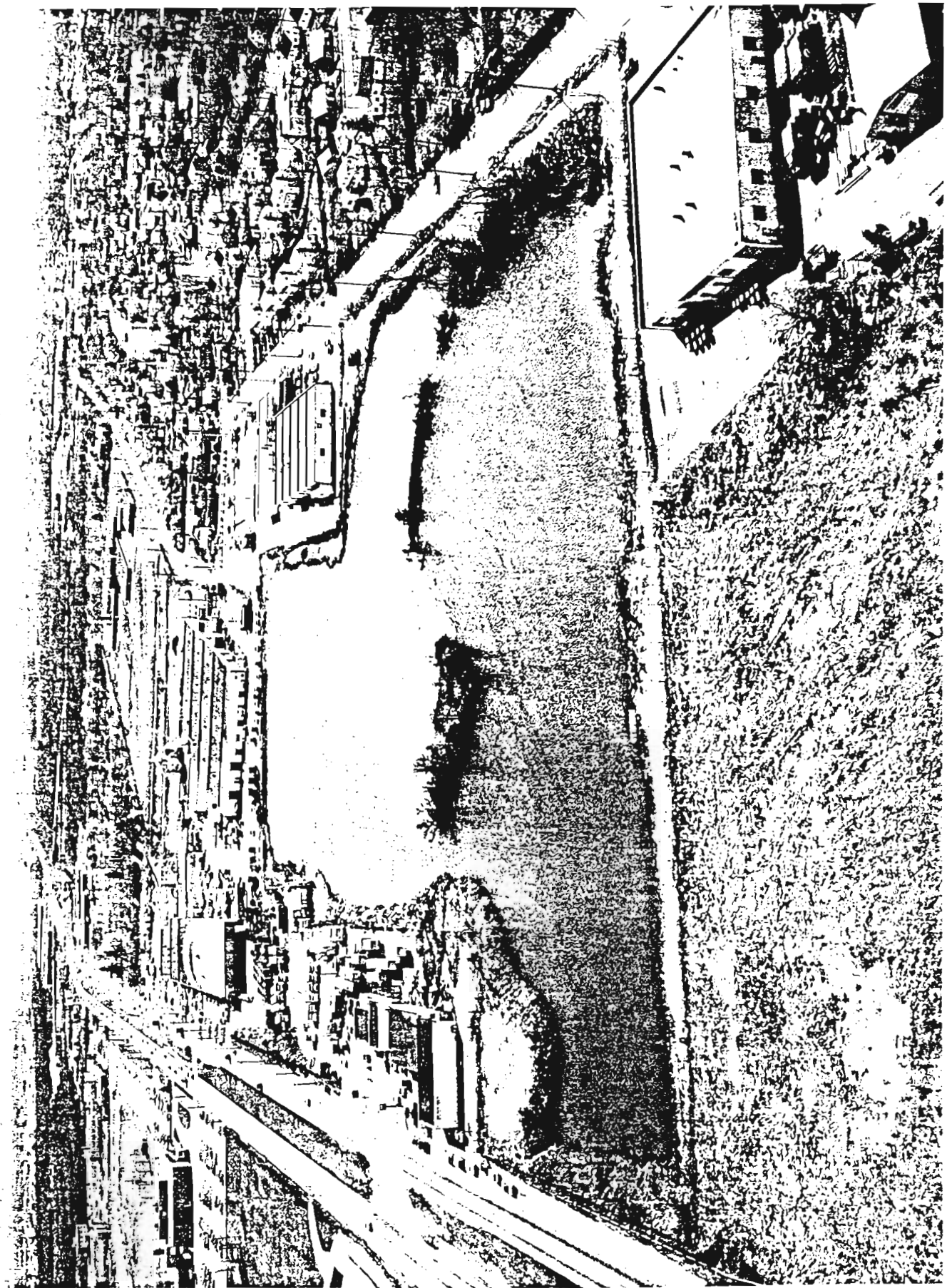
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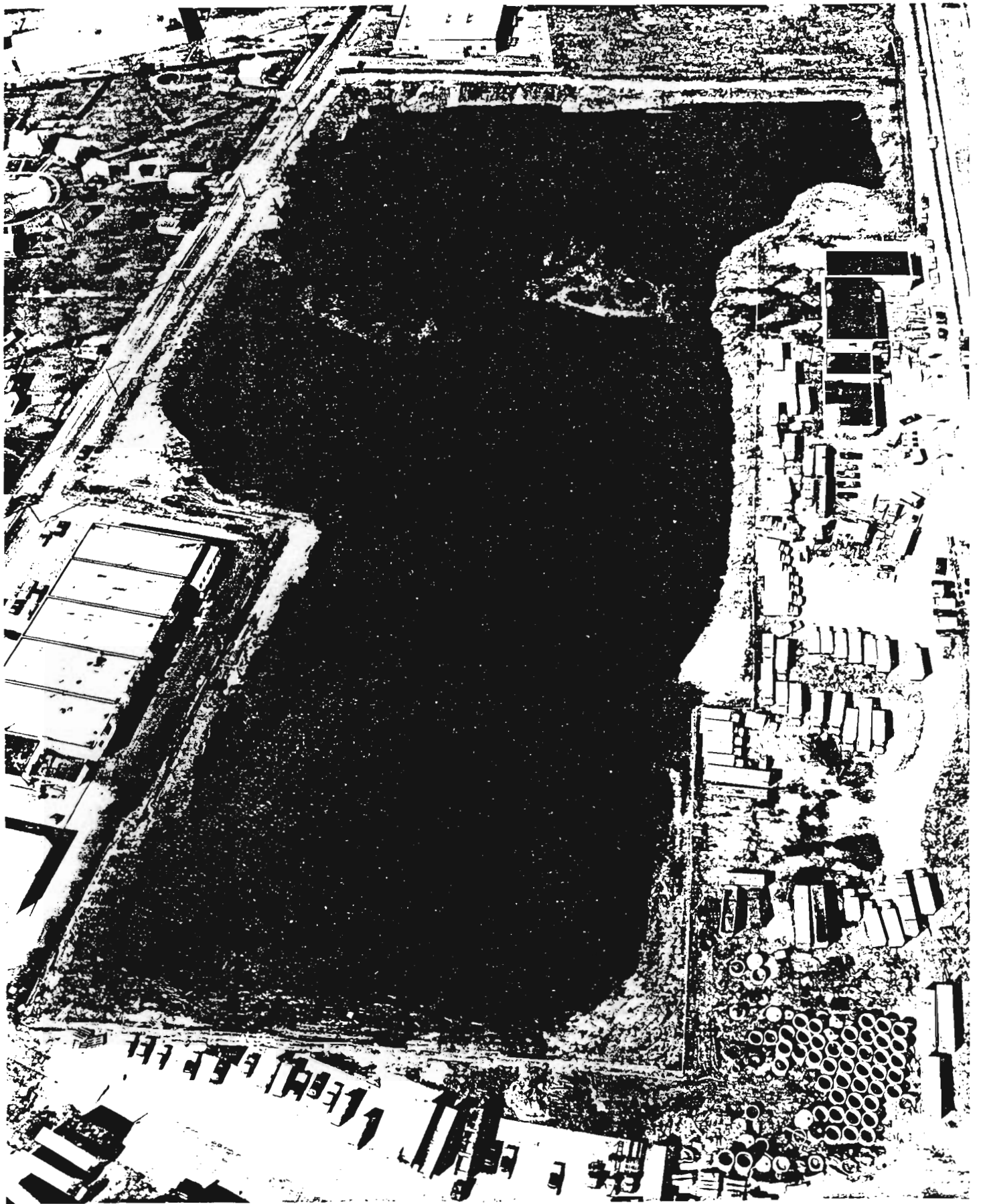


NOV 17 1970













APPENDIX B

SPDES PERMITS AND VIOLATIONS

FAIRCHILD INDUSTRIES, INC.
 OLD RECHARGE BASIN RI
 EAST FARMINGDALE, NEW YORK

eder associates

TABLE A-1

VOC ANALYTICAL RESULTS FOR FAIRCHILD DISCHARGES

Sample Location	Date	Parameters	Concentration (mg/l)	Required Detection Limit (mg/l)
Wastewater Treatment Plant	10/20/82	TCE	54	0.05
		PCE	14	0.05
	7/30/84	Toluene	0.003	0.05
		TCE	0.020	0.01
		Methylene Chloride	<0.002	0.05
		PCE	<0.002	0.002
		1,1,1-TCA	<0.001	0.05
		m-Xylene	<0.002	0.05
		o & p Xylene	<0.004	0.05
		7/31/84	Methylene Chloride	<0.002
	Toluene		0.002	0.05
	PCE		<0.002	0.002
	TCE		0.005	0.01
	1,1,1-TCA		<0.001	0.05
	m-Xylene		<0.002	0.05
	o & p Xylene		<0.004	0.05
	8/1/84	Methylene Chloride	<0.002	0.05
		Toluene	0.002	0.05
		PCE	<0.002	0.002
		TCE	0.008	0.01
		1,1,1-TCA	<0.001	0.05
m- Xylene		<0.002	0.05	
o & p Xylene		<0.004	0.05	
7/23/86	1,1,1-TCA	0.084	NA	

Sample Location	Date	Parameters	Concentration (mg/l)	Required Detection Limit (mg/l)
New Recharge Basin	7/30/84	PCE	<0.002	0.002
		m-Xylene	<0.002	0.05
		o-Xylene	<0.004	0.05
		Benzene	<0.001	0.001
	7/31/84	PCE	<0.002	0.002
		m-Xylene	<0.002	0.05
		o & p-Xylene	<0.004	0.05
		Benzene	<0.001	0.001
	8/1/84	PCE	<0.002	0.002
		m-Xylene	<0.002	0.05
		o & p-Xylene	<0.004	0.05
		Benzene	<0.001	0.001
Sewage Treatment Plant	3/9/83	PCE	0.11	0.05
		2-Butanone	0.11	0.05
Old Recharge Basin	6/15/81	Methylene Chloride	0.910	0.05
		TCE	0.072	0.05
Underpass Near Route 110	4/22/81	Methylene Chloride	1.9	0.05
Sump off Light Tower	7/22/81	Methylene Chloride	0.36	0.05
SD Middle of Route 110	7/22/81	Methylene Chloride	0.15	0.05
SP Southwest Building 29S	7/22/81	Methylene Chloride	0.13	0.05
SD Southeast Building 29S	7/22/81	TCE	0.09	0.05
SD. South Middle Building 29S	7/22/81	TCE	0.053	0.05
		Methylene Chloride	0.06	0.05
SD South Building 42	7/22/81	TCE	ND	0.05
		Methylene Chloride	ND	0.05

FAIRCHILD INDUSTRIES, INC.
 OLD RECHARGE BASIN RI
 EAST FARMINGDALE, NEW YORK

TABLE A-2

INDUSTRIAL WASTEWATER TREATMENT PLANT
SPDES AND OTHER EFFLUENT VIOLATIONS (NY0074276)

Date	Parameter	Concentration (mg/l)*	Permit Limit (mg/l)*
11/13/72	pH	2.6	6.5-8.5
9/10/74	pH	10.2	6.5-8.5
	Total Chromium	2.3	1.0
1/31/77	pH	12.4	6.5-8.5
	Total Chromium	4.1	2.0
	Fluoride	16	3.0
8/6/79	Nitrogen	77	10
	Fluoride	8.8	3
	Aluminum	16	2
	Total Chromium	33	2
	Iron	1.9	0.6
8/7/79	pH	5.2	6.5-8.5
6/17/81	pH	4	6.5-8.5
11/30/81	pH	5.6	6.5-8.5
	Nitrogen	91.35	10
	Fluoride	89	3
	Total Chromium	264.77	1.0
	Iron	6.73	0.6
1/20/82	TCE	54	ND
	PCE	14	ND
	Total Chromium	200	2
	Hexavalent Chromium	78	0.1
	Lead	0.2	0.05
	pH	4	6.5-8.5

Table A-2 Continued . . .

Date	Parameter	Concentration (mg/l)*	Permit Limit (mg/l)*
2/28/82	pH	5.8	6.5-8.5
	Nitrogen	33.35	10
	Aluminum	16.2	2
	Total Chromium	9.76	2
	Iron	2.4	0.6
5/31/82	pH	3.6-11.2	6.5-8.5
	Fluoride	4.39	3
	Aluminum	70.55	2
	Total Chromium	31.7	2
	Iron	0.96	0.6
8/31/82	pH	2.2-11.2	6.5-8.5
	Fluoride	3.05	3
	Aluminum	31.74	2
	Total Chromium	8.11	2
	Iron	1.64	0.6
11/30/82	pH	2.8-11.6	6.5-8.5
	Nitrogen	10.81	10
	Aluminum	1833	2
	Total Chromium	2775	2
	Iron	168.25	0.6
8/31/83	pH	1.3-12.47	6.5-8.5
	Nitrogen	13.46	10
	Aluminum	21.74	2
	Zinc	1.67	5
	Total Chromium	7.45	2
	Iron	5.06	0.6
12/13/82	Suspended Solids	34	45
	pH	2.7	6.5-8.5
11/30/83	pH	1.8-11.89	6.5-8.5
	Nitrogen	22.8	10
	Aluminum	15.45	2
	Zinc	0.708	0.6
	Total Chromium	16.63	2
	Iron	4.26	0.6
	Hexavalent Chromium	0.289	0.1

Table A-2 Continued . . .

Date	Parameter	Concentration (mg/l)*	Permit Limit (mg/l)*
7/30/84	TCE	0.02	ND
7/31/84	TCE	0.005	ND
8/1/94	TCE	0.008	ND
11/29/84	Total Chromium	1.7	2.0
11/29/84 ¹	Iron	12.0	0.6
	Lead	0.4	0.05
	Cadmium	0.06	0.02
2/28/85	pH	4.6	6.5-8.5
	Aluminum	70	2.0
	Sulfides	35	1.0
7/23/86	Silver	0.14	0.1
	1,1,1 trichloroethane	0.084	ND
Sewage Treatment Plant SPDES Violations (NY 0074276)			
9/6/77	Suspended solids	88	45
	Fecal coliform	460	400
	% removal TOC	0	85
2/21/78	Suspended solids	112	45
	Fecal coliform	2400	400
	% removal TOC	26	85
4/18/78	Suspended solids	60	45
	% removal TOC	82	85
3/17/80	Suspended solids	208	45
	Fecal Coliform	>2400	400
4/14/80	Suspended solids	64	45
	Fecal Coliform	>2400	400
	% removal TOC	73	85
7/14/80	Suspended solids	76	45
	% removal TOC	65	85

Table A-2 Continued . . .

Date	Parameter	Concentration (mg/l)*	Permit Limit (mg/l)*
11/20/80	Suspended solids	72	45
	Fecal coliform	>2400	400
12/26/80	Suspended solids	105	45
	% removal TOC	80	85
5/18/81	% removal TOC	69	85
9/21/81	Suspended solids	50	45
	% removal TOC	52	85
12/13/82	pH	2.7	6.5-8.5
	% removal TOC	51	85
3/9/83	Tetrachloroethene	0.110	
	2-butanone (MEK)	0.110	
3/28/83	Fecal coliform	>2400	400
	Cadmium	0.04	0.02
10/17/83	Cadmium	0.06	0.02

NOTES:

ND = Not Detected

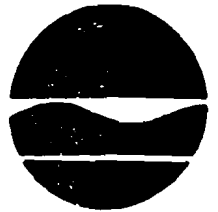
- Sample from steam cleaning pit

* - All units mg/l except for pH.

SPDES PERMITS

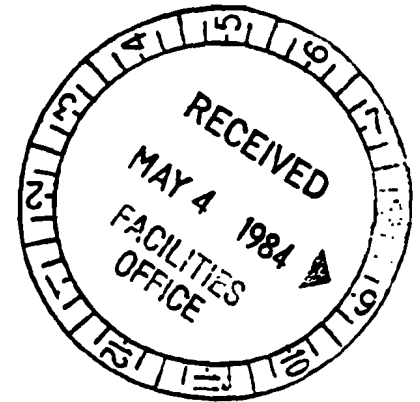
New York State Department of Environmental Conservation
Regulatory Affairs Unit
Bldg. 40, SUNY--Room 219
Stony Brook, NY 11794

(516) 751-7900



Henry G. Williams
Commissioner

May 1, 1984



Fairchild Republic Company
Conklin Street
Farmingdale, NY 11735

Attention: R. S. Miller, Sr. Vice President

RE: Deletion of State Pollutant Discharge
Elimination System (SPDES) Permit
No. NY-0074276, UPA File No. 10-83-1454
Babylon (T)

Dear Mr. Miller:

This Department has made a determination to delete
your referenced SPDES permit because the subject
discharge has been incorporated into SPDES Permit
No. NY-0089621.

Please direct any inquiries you may have to this
office or call (516) 751-7900.

Very truly yours,

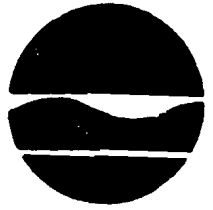
Daniel J. Larkin
Regional Permit Administrator

cc: A. Yerman
S. Costa
R. Hannaford

DJL:co's

New York State Department of Environmental Conservation
Regulatory Affairs Unit
Bldg. 40, SUNY--Room 219
Stony Brook, NY 11794

(516) 751-7900



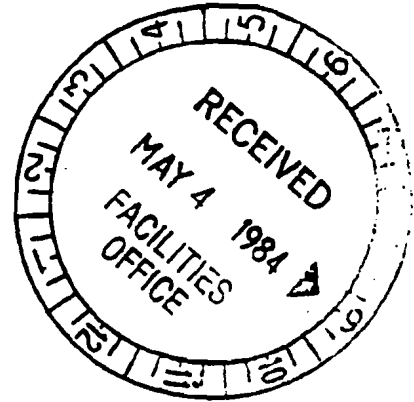
Henry G. Williams
Commissioner

May 1, 1984

Fairchild Republic Company
Conklin Street
Farmingdale, NY 11735

Attention: Tom Webb, Chief Environmental Engineer

RE: UPA File Number 10-83-1454
SPDES Facility I.D. Number NY-0089621

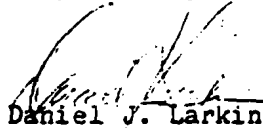


Dear Mr. Webb:

In conformance with the requirements of the State Uniform Prodecures Act (Article 70, ECL) and its implementing Regulations (6NYCRR, Part 621) we are enclosing your SPDES Permit identified above. Please carefully read all general and other conditions and the schedule contained in the permit to insure compliance during the term of the permit.

This permit should be kept available on the premises of the discharging facility at all times.

Very truly yours,


Daniel J. Larkin
Regional Permit Administrator

cc: R. Hannaford
A. Yerman
S. Costa, P.E., SCHDS
DJL:DD:co's

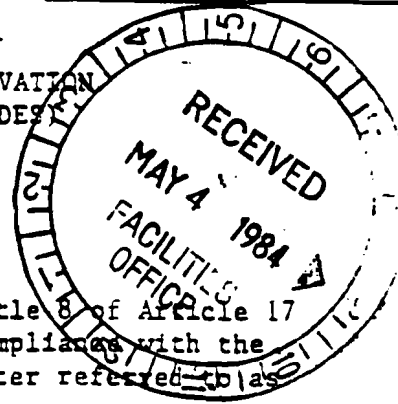
Attachment: General Conditions, Part II

Copies: A. Yerman
R. Hannaford
S. Costa

Facility ID No. : NY-008 9621
Effective Date (EDF) : May 1, 1984
Expiration Date (ExDP) : May 1, 1989

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

Special Conditions
(Part I)



This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Permittee Name: Fairchild Republic Co Attn: Tom Webb, Chief Environmental Engineer
Permittee Street: Conklin Street
Permittee City: Farmingdale State: NY Zip Code: 11735

is authorized to discharge from the facility described below:

Facility Name: Fairchild Republic Co.
Facility Location (C,T,V): Babylon (T) County: Suffolk County
Facility Mailing Address (Street): Conklin Street
Facility Mailing Address (City): Farmingdale State: NY Zip Code: 11735
into receiving waters known as: Groundwater (Class GA)

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal as prescribed by Sections 17-0803 and 17-0804 of the Environmental Conservation Law and Parts 621, 752, and 755 of the Departments' rules and regulations.

By Authority of Daniel J. Larkin, P.E., Regional Permit Administrator
Designated Representative of Commissioner of the
Department of Environmental Conservation

5/3/84
Date

[Signature]
Signature

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning May 1, 1984 and lasting until May 1, 1989 the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

<u>Outfall Number & Effluent Parameter</u>	<u>Discharge Limitations</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Daily Avg.</u>	<u>Daily Max.</u>			
001 Flow (treated process water to 002) ¹		NA		Continuous	Recorded
Aluminum-Total		2	mg/l	Weekly	Composite
Copper-Total		1	mg/l	Weekly	Composite
Chromium-Total		1	mg/l	Weekly	Composite
Chromium-Hexavalent		.1	mg/l	Weekly	Composite
Fluoride		3	mg/l	Weekly	Composite
Iron-Total		.6	mg/l	Weekly	Composite
Lead-Total		.05	mg/l	Weekly	Composite
Silver-Total		.1	mg/l	Weekly	Composite
Sulfide		1	mg/l	Weekly	Composite
Phenol		.002	mg/l	Weekly	Composite
Total Nitrogen		10	mg/l	Weekly	Composite
Oil & Grease		15	mg/l	Weekly	Grab
pH (Range)	6.5 - 8.5		SU	Weekly	Grab

002 No monitoring required, sanitary and treated 001 waste to S.T.P.²

003 Non-contact Cooling and Storm water
 Oil & Grease 15 mg/l When discharging Grab

004 Storm water - Aircraft Parking
 Oil & Grease 15 mg/l Monthly Grab

The permit application must list all the corrosion/scale inhibitors or biocidal-type compounds used by the permittee. If use of new boiler/cooling water additives is intended, application must be made prior to use.

Notes

¹ Outfall 001 treated process water discharge to 002 (One of five influent lines)

² Outfall 002 discharge to Company operated STP NY#0024276 - To be discontinued 1/30/85 The STP presently receives Sanitary Waste from 5 separate Sanitary lines covering the entire site. Four (4) of these will be disconnected by 6/30/84 when connection is made separately for each to the SW Sewer District line. After pretreatment upgrading is completed for Outfall 001, by 1/30/85, the last (1) sanitary waste line will be connected to the SWSD line and the STP line will be shut down.

Outfall 003 No treated or untreated industrial wastes or sanitary wastes shall be allowed. Discharge shall be to new storm water recharge basins only.

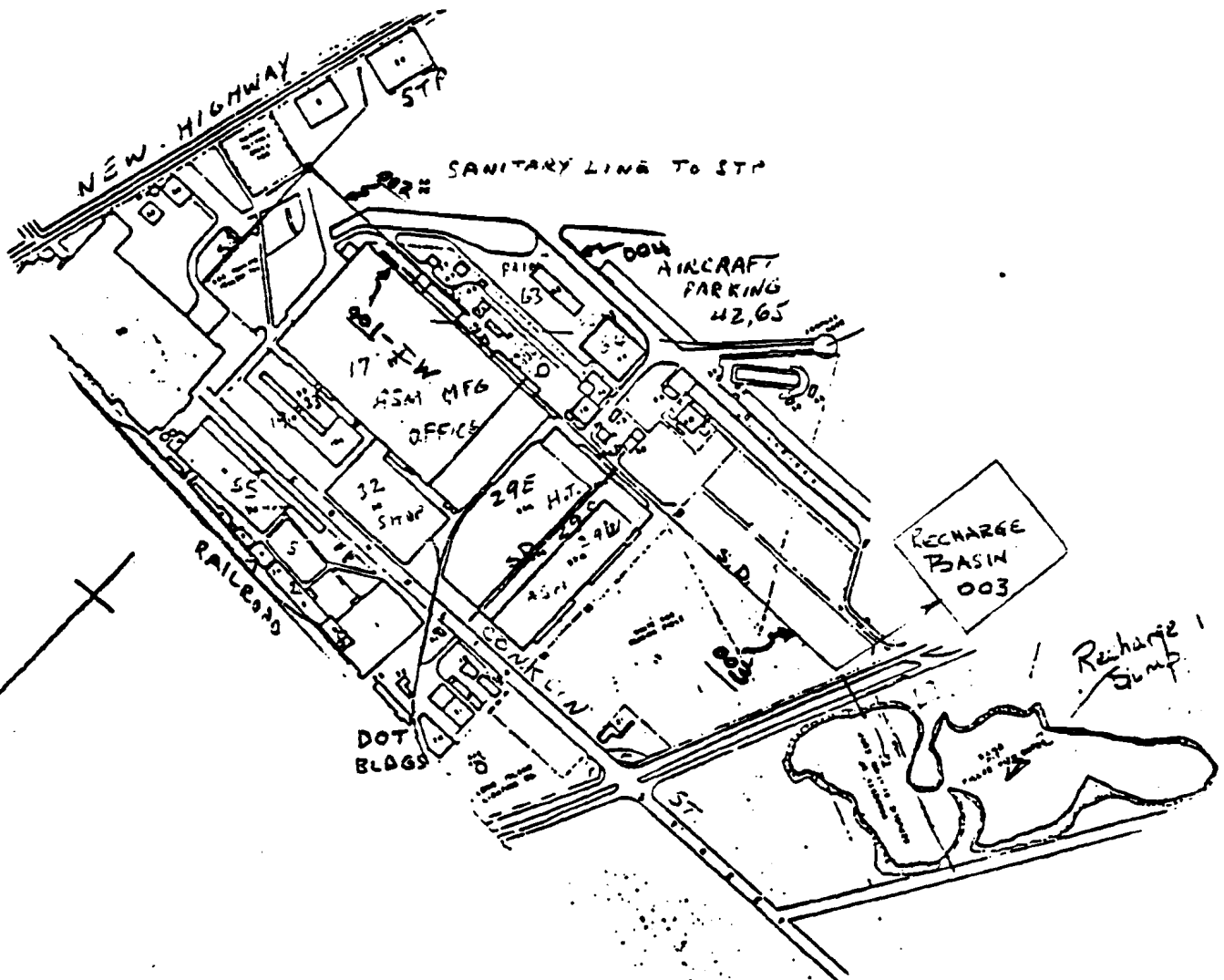
Definition of Daily Average and Daily Maximum

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location(s) indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate).



SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS

(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
19	001	A short-term, high-intensity sampling program shall be implemented for the parameters listed below. This shall consist of grab samples taken for three consecutive days. Analysis shall be by gas chromatography with a limit of detectability as indicated. Results of sampling shall be expressed in mg/l and lbs/day and shall be submitted to the Bureau of Wastewater Facilities Design.	31 July 1984 YES

<u>PARAMETER</u>	<u>DETECTION LIMIT (mg/l)</u>
methylene chloride	.05
tetrachloroethylene	.002
toluene	.05
trichloroethylene	.01
1,1,1-trichloroethane	.05
xylene	.05

	003	Discharge from water quench tank in foundry and Lindberg heat treat quench in Bldg. 17 shall be disconnected from outfall 003.	31 July 1984 NO
28	001 & 002	Connect to Suffolk County South West Sewer District	Jan. 30, 1985 4 out of 5 1985

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS (continued)

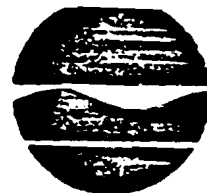
(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
19	004	A short-term, high-intensity sampling program for benzene, toluene and xylene shall be implemented. This shall include grab samples taken for three consecutive days. Analysis shall be by gas chromatography with a limit of detectability of .05 for toluene and xylene and .001 mg/l for benzene. Results of sampling shall be expressed in mg/l and lbs/day and shall be submitted to the Bureau of Wastewater Facilities Design.	31 July 1985

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233 -0001
PDES Permit Section, Room 315
(518) 457-8185



Robert F. Flacke
Commissioner

March 17, 1982

R. S. Miller, Sr. Vice President
Fairchild Republic Company
Conklin Street
Farmingdale, New York 11735

2b.	<input checked="" type="checkbox"/>	Publ. (NW-P)
1c. 2c.	<input type="checkbox"/>	CO/ECSL
2d.	<input type="checkbox"/>	Fee

Re: Application for Permit to
Discharge Under New York State
Pollutant Discharge Elimination
System (SPDES)
Application No. NY-0089621
Suffolk Co.

Dear Mr. Miller

1. Enclosed are the following:

a. The "Notice of Complete Application" (Notice) (one page), a public notice to other potentially interested parties describing your discharge and this Department's intention to issue a permit. The Notice will be published in the Department's weekly Environmental Notice Bulletin, and, if item 2b. is checked below, you must also have the Notice published in a local newspaper.

b. A copy of the draft SPDES discharge permit which contains the effluent limitations and monitoring requirements and other specific conditions that you will be required to comply with.

c. A Consent Order or Enforcement Compliance Schedule Letter (ECSL) with Schedule A, which contains an abatement schedule and interim effluent limitations and monitoring requirements that you will be required to follow to bring your discharge(s) into compliance with applicable Federal and State water pollution control laws. Also see item 2c. below.

d. Other: _____

2. You are hereby requested to do the following:

a. Read over the enclosed documents carefully and notify this office immediately if there are any errors. If there are no errors, but you want to submit written comments, the comments should be sent to this office prior to the cut-off date underlined in the body of the Notice.

b. The Notice of Complete Application should be published unedited in its entirety (except for bracketed portions) one time only on any day during the week of March 29 - April 2, 1982, in the POST, 51 Heisser Lane, Farmingdale, NY 11735.
(name and location of newspaper)

The Notice should not be revised or edited unless you have been authorized to do so by this office. Minor revisions will be authorized by phone if necessary.

Request the newspaper publisher to provide you with an affidavit of publication and promptly forward a copy of it to this office for filing with your application. You are responsible for the cost of publication.

You are advised that any delay or failure to comply with requirements for publication may necessitate appropriate legal action if there are existing discharges from your facility; or cancellation of your application if this is a proposed project.

c. The Consent Order or ECSL must be signed by a chief executive officer (e.g. city or village mayor, town supervisor, corporate president or vice president, owner or partner) and must be returned to this office before the cut-off date underlined in the body of the Notice. A signed copy of the Consent Order or ECSL will be attached to each copy of the issued permit. If you do not agree to sign the Consent Order or ECSL, this Department will have no other recourse but to initiate enforcement proceedings to secure your compliance with applicable effluent limitations and water quality standards mandated by the Federal Clean Water Act and State Environmental Control Law.

d. You failed to include with your application the full amount of the required fee which is \$ _____. Please submit a check or money order for the balance due in the amount of \$ _____, payable to the Department of Environmental Conservation. A copy of the application fee schedule is enclosed. Please indicate the SPDES Application Number on your check or money order. Legally, your application is incomplete until the fee is paid. However, in order to expedite processing of this application, we have enclosed the Notice of Complete Application and draft SPDES permit. The amount of the fee should be sent to this office on or before the "cut-off date" underlined in the body of the Notice.

e. Other: _____

If you call our office, please ask for Mr. Dan Meszler

Very truly yours,



William L. Garvey, P.E.
Chief, Permit Administration Section
Division of Water

Enclosures:

cc: SPDES File
Tickler File
ENB (Notice Only)
Region # 1

EPA
Suffolk Co. DHS

NOTICE OF COMPLETE APPLICATION

NOTE TO NEWSPAPER:
DO NOT PUBLISH MATERIAL
IN BRACKETS.

THIS IS NOT A PERMIT

TO: Applicant R. S. Miller, Sr. Vice PresidentDate 3/17/82Address Fairchild Republic Company

App. Nos. _____

Conklin Street, Farmingdale, New York 11735NY-0089621Permitt(s) applied for: State Pollutant Discharge Elimination System (SPDES)

Project Description

Town BabylonCounty Suffolk and Site Location: FAIRCHILD REPUBLIC COMPANY

The Department has made a tentative determination to approve this application for renewal of a permit for an existing discharge of an average of: (A) 288,000 gallons per day of treated (reduction, flocculation, sedimentation and neutralization) process wastewater, and (2) 165,000 gallons per day of treated (chemical and biological) sanitary and compatible process wastewater into groundwaters from wastewater treatment plants as well as intermittent discharges of (1) stormwater runoff and (2) treated (oil/water separator) contaminated stormwater runoff into groundwaters from subsurface disposal facilities at the applicant's facility located on Conklin Street, Farmingdale, Babylon (T), Suffolk Co., New York, where the applicant manufactures and assembles aircraft as well as aircraft and space vehicle parts. A compliance schedule will require additional treatment to meet current state and/or federal standards.

PUBLIC COMMENT: Applications may be reviewed at the address listed below and specific comments on the project, or a request to become a party-in-interest if a public hearing is held, must be submitted in writing to the contact person named

below no later than May 3, 1982

{Cut-off date}

(By law, this date must be at least 14 days (30 days for a SPDES Permit) from the date the notice will appear in the Environmental Notice Bulletin.)

LEAD AGENCY: N.Y.S. Department of Environmental Conservation

SEQR DETERMINATION:

SEQR-1 Project is not subject to SEQR because it is exempt, excluded, or a Type II action.

CONTACT: (name, agency, address, telephone number)

William L. Garvey, P.E.Chief, Permit Administration Section50 Wolf Road, Room 315Albany, New York 12233-0001Phone Inquiries: Call (518) 457-8185 and ask for Mr. Dan Meszler

TO THE APPLICANT: This is to advise that your application is complete and a review has commenced. Additional information may be requested from you at a future date, if deemed necessary in order to process the application.

The project has been classified non-minor. Accordingly, a decision will be made within 90 days of the date of this notice. If a public hearing is necessary, you will be notified within 60 days, and the hearing will commence with 90 days of the date of this notice. If a hearing is held, the final decision will be made within 60 days after the hearing is completed.

cc: Chief Executive Officer
Environmental Notice Bulletin, Room 509, 50 Wolf Road, Albany, N. Y. 12233
File

DEC Region # 1
Tickler
Suffolk Co. DHS

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 (Room 201) February 28, 1979



Fairchild Republic Company
Conklin Street
Farmingdale, NY 11735

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Robert F. Flac
Commissioner

Attn: Mr. Russell Gray,
Supervisor/Plant Engineering

Re: MODIFICATION OF POLLUTANT
DISCHARGE ELIMINATION SYSTEM
PERMIT NO. NY-0089621 (GWI)
Babylon (T), Suffolk Co.
Fairchild Republic Co.

Dear Mr. Gray:

This is to inform you that pursuant to Environmental Conservation Law ("ECL"), Article 17, Title 8 (McKinney's) and 6 NYCRR, Part 757, the New York State Department of Environmental Conservation has made a determination to modify your referenced Pollutant Discharge Elimination System Permit as indicated in the complete enclosed revised Permit which supercedes the previous Permit.

A separate Compliance Schedule has been developed for outfall 003. Also Discharge Monitoring Report submittal has been changed from monthly to quarterly.

Unless otherwise specified, this modification will become effective immediately unless you petition, pursuant to ECL Section 17-0907, that you be given an opportunity to be heard in connection with this determination and where applicable, if no written objection is received by this office within 30 days after receipt of this modification by the Regional Administrator of EPA. Any such petition for a hearing shall contain specific evidence to support your contention that a hearing is necessary and that you were not previously given an opportunity to be heard.

Enclosure

cc: Region #1
Mr. Crandall - BMS
Mr. Pagano - BIP
Suffolk Co. DHS-H
Mr. Cronin
File

Very truly yours,

George K. Hansen, P.E.
Chief, P.D.E.S. Permit Section
Division of Pure Waters

Copies: SPDES File

Reg. 1-Ref.#47-0775 Facility ID No. : NY-0089621
Suffolk Co. DHS
Mr. Crandall - BMS Effective Date : July 1, 1976
Mr. Pagano - BIP Expiration Date : July 1, 1981

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

Attch: Part II-Gen'l Cond DISCHARGE PERMIT MODIFIED: 2/28/79
Schedules "A" & "B"
Special Conditions
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Fairchild Republic Company
Conklin Street
Farmingdale, NY 11735

Attn: Mr. Russell Gracy

is authorized to discharge from the facility described below:

Fairchild Republic Company
Conklin Street

Babylon (T), Suffolk Co.

into receiving waters known as:

Groundwater - Class GA

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or written authorization is given by the Department. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the Department of Environmental Conservation no later than 180 days prior to the expiration date.

By Authority of George K. Hansen, P.E., Chief, PDES Permit Section
Designated Representative of Commissioner of the
Department of Environmental Conservation

7/28/76
Date

[Signature]
Signature

INITIAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning July 1, 1976 and lasting until April 1, 1978, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Requirements	
		(kg/day)	(lbs/day)	Other Units (Specify)	(Specify)	Measurement	Sampling Type
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	
001	Flow-Industrial Wastes*				288,000 gpd	Daily	Conti
	Cr ⁺⁶				0.1 mg/l	weekly	gra
	Cr-Total				2.0 mg/l	weekly	gra
	Fluoride				3.0 mg/l	weekly	gra
	Zn				0.6 mg/l	weekly	gra
002	Sanitary Waste - To Fairchild Republic Sewage Treatment Plant. SPDES Permit No. NY-0074276.						

NOTE: *Industrial waste treatment plant effluent and miscellaneous untreated industrial discharge. Presently all discharge from 001 is going into 003.

Permittee also subject to attached Schedule "A"

**The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily using a properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate unit as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the sum of all the measured daily discharges in appropriate units as specified herein divided by number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate unit as specified herein, during any calendar day. **When natural groundwaters have a pH outside of range indicated above, that natural pH may be one extreme of the allowable range.

INITIAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)
 effective date

During the period beginning of modification and lasting until November 1, 1980, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

<u>Outfall Effluent</u> <u>Number Parameter</u>	<u>Discharge Limitations</u>				<u>Monitoring Reqmts</u>	
	<u>kg/day (lbs/day)</u>	<u>Other Units (Specify)</u>	<u>Measurement Sampl</u>		<u>Frequency Type</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Daily Avg.</u>	<u>Daily Max.</u>		
003 Storm Drainage System	- Discharge to recharge sump on west side of Route 110. Present capacity is being exceeded partly due to the continuous discharge from 001.					

Permittee also subject to attached Schedule A

*When natural groundwaters have a pH outside of range indicated above, that natural pH may be one extreme of the allowable range.

* The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 1/day by using properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning April 1, 1978 and lasting until July 1, 1981, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

<u>Outfall Effluent</u> <u>Number</u> <u>Parameter</u>	<u>Discharge Limitations</u>				<u>Monitoring Reqmts.</u>	
	<u>kg/day</u> (<u>lbs/day</u>)	<u>Other Units (Specify)</u>			<u>Measurement</u>	<u>Sample</u>
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Frequency</u>	<u>Type</u>

002 Sanitary Wastes for sanitary and compatible industrial wastes as outlined in engineering report (Including the treated effluent from industrial wastes 001).

Permittee also subject to attached Schedule A.

*When natural groundwaters have a pH outside of range indicated, that natural pH may be one extreme of the allowable range.

*The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily for outlet 002 using properly calibrated pH meter.
Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

SPECIAL NOTES

- 1 - Since the Fairchild Republic Sewage Treatment Plant has adequate reserve disposal facilities presently idle, the engineering consultant recommends that the pre-treated industrial wastewater be tied into the sanitary sewage collection system, until the facilities of the Suffolk County South West District are available this will eliminate the overloading of the storm water recharge sump 003.

- 2 - Any waste not compatible with the sewage treatment plant or industrial waste treatment plant that is discharged to either above ground or in-ground holding tanks or containers such as waste conc. acids, waste oil, waste conc. caustic, waste fuel, waste solvents and industrial waste treatment plant sludge, but not limited specifically to these, must be removed from site by an approved industrial waste scavenger to a site outside Suffolk Co. No discharge of these wastes will be allowed onto surface or ground waters. Overflow or spillage into the surface of the ground will not be allowed. Waste removal records must be maintained for review by appropriate personnel.

- 3 - The discharge of Polychlorinated Biphenyls (PCBs) shall be prohibited.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS

(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
1	001, 002,	Submit Approvable Engineering Report by:	September 1, 1976
2	"	Submit Approvable Final Plans by:	March 1, 1977
4	"	Commencement of Construction by:	July 1, 1977
8	"	Completion of Construction by:	January 1, 1978
9	"	Attainment of Operational Level by:	April 1, 1978

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or non-compliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS

(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
01	003	Submit Approvable Engineering Report by:	May 1, 1979
02	" "	Submit Approvable Final Plans by:	November 1, 1979
04	" "	Commencement of Construction by:	June 1, 1980
09	" "	Attainment of Operational Level by:	November 1, 1980

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS
(Continued)

c) The permittee shall submit copies of the written notice of compliance or noncompliance required in section (b) to the following offices:

Chief, Compliance Section
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233

Regional Engineer - Region #1
New York State Department of Environmental Conservation
Building 40 - SUNY
Stoney Brook, New York 11794

and

Suffolk Co. Dept. of Health Services
65 Jetson Lane
Hauppauge, New York 11787

d) The permittee shall submit copies of any engineering reports, plans of study, final plans, as-built plans, infiltration-inflow studies, etc. required by this permit to the following offices, unless otherwise specified in this permit or in writing by the Department or its designated field office:

Regional Office #1 - 3 Copies

Suffolk County Dept. of Environmental Control - 1 copy

MONITORING, RECORDING AND REPORTING

a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized and reported by submitting a completed and signed Discharge Monitoring Report form once every 3 months to the Department of Environmental Conservation and other appropriate regulatory agencies at the offices specified below. The first report will be due no later than March 28, 1979. Thereafter, reports shall be submitted no later than the 28th of the following month(s): June, Sept.,

Dec., March

Chief, Waste Source Monitoring Section
New York State Department of Environmental Conservation
Room 300 - 50 Wolf Road - Albany, New York 12233

Regional Engineer - Region #1
New York State Department of Environmental Conservation
Building 40 - SUNY
Stoney Brook, New York 11794

and

Suffolk Co. Dept. of Health Services
65 Jetson Lane
Hauppauge, New York 11787

c) If so directed by this permit or by previous request, Monthly Wastewater Treatment Plant Operator's Reports shall be submitted to the DEC Regional Office and county health department or county environmental control agency specified above.

d) Each submitted Discharge Monitoring Report shall be signed as follows:

1. If submitted by a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the Discharge Monitoring Report originates;

2. If submitted by a partnership, by a general partner;

3. If submitted by a sole proprietor, by the proprietor;

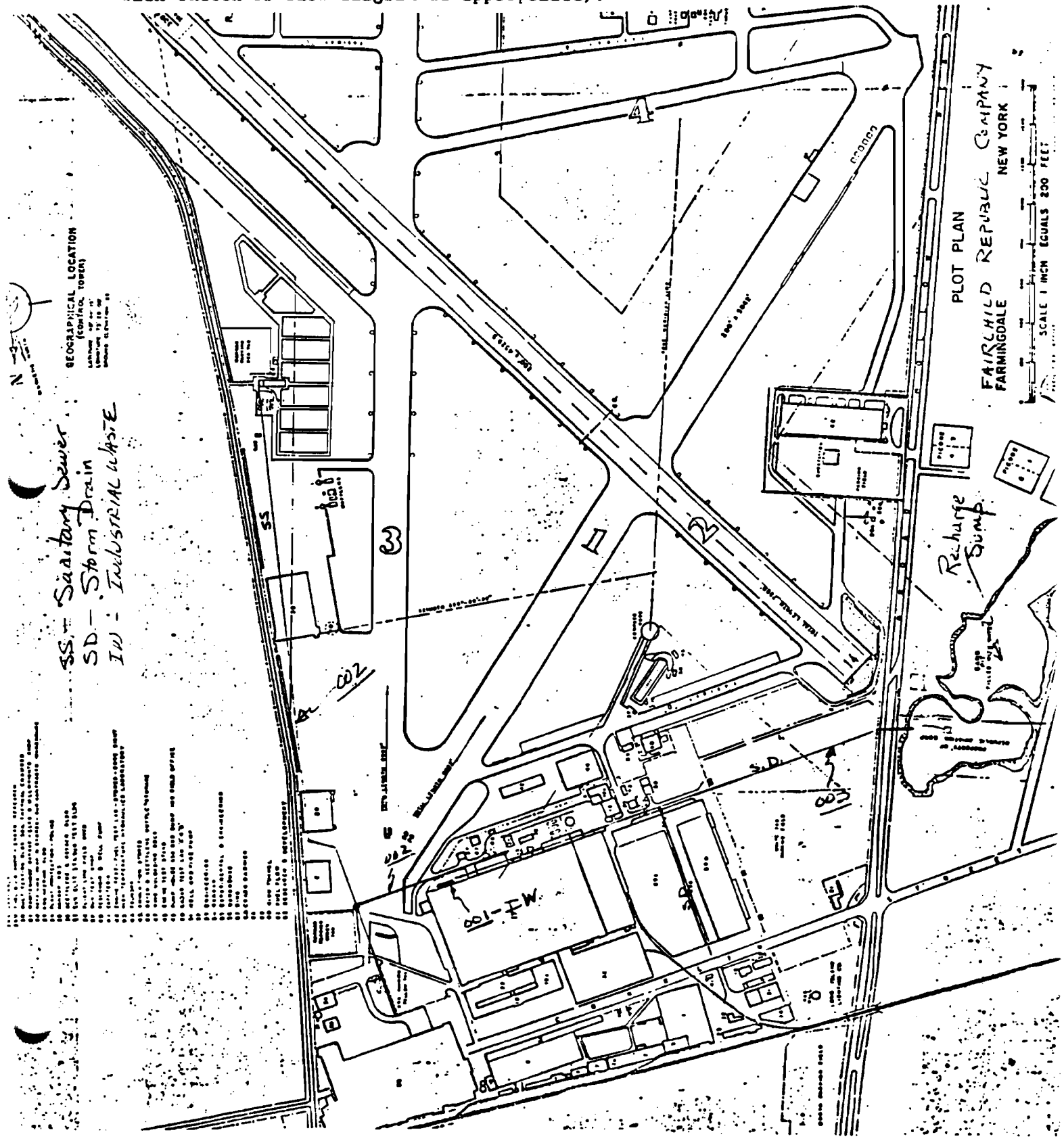
4. If submitted by a municipality, State or Federal agency, or other public entity; by a principal executive officer, ranking elected official, commanding officer, or other duly authorized employee.

e) Unless otherwise specified, all information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the most recently completed reporting period.

f) Blank Discharge Monitoring Report Forms are available at the above addresses.

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location(s) indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate).



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

GENERAL CONDITIONS
(PART II)

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PART II - GENERAL CONDITIONS

1. GENERAL PROVISIONS

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

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

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

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

2. PROHIBITIONS

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

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

- (2) Any discharge which the Secretary of the Army acting through the Chief of Engineers finds would substantially impair anchorage and navigation;
- (3) Any discharge to which the Regional Administrator has objected in writing pursuant to any right to object provided the Administrator in Section 402(d) of the Act; and
- (4) Any discharge from a point source which is in conflict with a plan or amendment thereto approved pursuant to section 208(b) of the Act, or any other discharge not permitted by this article, article 17 of the ECL, other rules and regulations adopted or applicable pursuant thereto, the Act, or the provisions of a SPDES permit.

3. EXCLUSIONS

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

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

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

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

4. MODIFICATION, SUSPENSION, REVOCATION

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

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

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

1. Violation of any terms or conditions of this permit; or;
2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts, or false or inaccurate statements or information in the application; or;
3. A change in any physical circumstances, requirements or criteria applicable to discharges that requires either a temporary or permanent reduction or elimination of the authorized discharges, such as:
 - (i) standards for construction or operation of the discharging facility,
 - (ii) the characteristics of the waters into which such discharge is made,
 - (iii) the water quality criteria applicable to such waters,
 - (iv) the classification of such waters, or
 - (v) effluent limitations or other requirements applicable pursuant to the Act or State Law.

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

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

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

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

5. REPORTING NONCOMPLIANCE

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

- (1) Cause of noncompliance;
 - (2) A description of the noncomplying discharge including its impact upon the receiving waters;
 - (3) Anticipated time the condition of noncompliance is expected to continue, or if such condition has been corrected, the duration of the period of noncompliance
 - (4) Steps taken by the permittee to reduce and eliminate the noncomplying discharge; and
 - (5) Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance.
- b. Permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitation specified in this permit, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the non-complying discharge.
 - c. Except as provided herein under Prohibition of Bypass of Treatment Works, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
 - d. It is recognized that equipment malfunction, acts of God or other circumstances beyond the control of the Permittee may sometimes result in effluent concentrations exceeding the permit limitations despite the exercise of appropriate care and maintenance measures and corrective measures by the Permittee. The Permittee may come forward to demonstrate to the Department that such circumstances exist in any case where effluent concentrations exceed those set forth in this permit. The Department, however, is not bound to wait for or solicit such demonstrations prior to the initiation of any enforcement proceeding; nor must it accept as valid on its face the statements made in any such demonstration. Nevertheless, if the Department seeks to enforce in an administrative or judicial proceeding any provision of any permit issued to the Permittee by any permitting agency, the Permittee may raise at that time the issue of whether under the Constitution, statute, or decisional law it is entitled to a defense that its conduct was caused by circumstances beyond its control.

6. INSPECTIONS

- a. The permittee shall allow the Commissioner of the Department of Environmental Conservation, the Regional Administrator, and/or their authorized representative, upon the presentation of credentials:
 1. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit;
 2. To have access to and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;
 3. To inspect any monitoring equipment or practices being maintained pursuant to this permit; or

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

7. TRANSFER OF OWNERSHIP

- a. Any permittee who intends to transfer a SPDES permit is required to notify the Department in advance of the transfer. In the case of a change of ownership only, notice to the Department is required prior to change; in the case of an ownership change accompanied by a change or proposed change in wastewater characteristics, a minimum of 180 days prior notice to the Department is required.
- b. The terms and conditions of this permit are binding on the successors or assigns in interest of the original permittee.

8. PERMIT RENEWAL

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

9. SPECIAL PROVISIONS - NEW OR MODIFIED DISPOSAL SYSTEMS

- a. Prior to construction of any new waste disposal system or modification which would materially alter the volume of, or the method or effect of treating or disposing of the sewage, industrial waste or other wastes, from an existing waste disposal system, the Permittee shall submit to the Department or its designated field office for review, an approvable engineering report, plans, and specifications which have been prepared by a person or firm licensed to practice Professional Engineering in the State of New York.
- b. The construction of the above new or modified disposal system shall not start until the Permittee receives written approval from the Department or its designated field office.
- c. The construction of the above new or modified disposal system shall be under the general supervision of a person or firm licensed to practice Professional Engineering in New York State, and upon completion of construction that person or firm shall certify to the Department or its designated field office that the system has been fully completed in accordance with the approved engineering report, plans and specifications, permit and letter of approval.

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

10. MONITORING RECORDING AND REPORTING

10.1 General

- a. The permittee shall comply with all recording, reporting, monitoring and sampling requirements herein and such other additional terms, provisions, requirements or conditions that the Department may deem to be reasonably necessary to achieve the purposes of the Environmental Conservation Law, Article 17, the Act, or rules and regulations adopted pursuant thereto.
- b. Samples and measurements taken to meet the monitoring requirements specified herein shall be representative of the volume and nature of the monitored discharge. Composite samples should be "flow-proportioned" if necessary to obtain a representative sample.
- c. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation to insure accuracy of measurements.

10.2 Monitoring Locations

- a. Permittee shall take samples and measurements to meet the monitoring requirements at the locations specified.
- b. Unless specified otherwise, samples of the effluent shall be taken at the point of combined flow into the outfall sewer.
- c. Unless specified otherwise, samples of the influent wastewater shall be taken at the point of plant inflow.

10.3 Recording of Monitoring Activities and Results

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

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

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

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

10.4 Analytical Methods

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

1. Standard Methods for the Examination of Water and Wastewaters, 14th Edition, 1976, American Public Health Association, New York, New York 10019.
2. A. S. T. M. Standards, Part 31, Water; Atmospheric Analysis, 1975, American Society for Testing and Materials, Philadelphia, Pennsylvania 19103.

3. Methods for Chemical Analysis of Water and Wastes,
1974, Environmental Protection Agency Water Quality
Office, Analytical Quality Control Laboratory, NECR,
Cincinnati, Ohio 45268.

10.5 Application for Alternate Test Procedures

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

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

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

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

(3) Provide justification for using testing procedures other than those specified in Table I, FEDERAL REGISTER, 28759, Vol. 38. No. 199, Tues. Oct. 16, 1973, or as amended.

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

10.6 Confidential Information

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

11. DISPOSAL SYSTEM OPERATION AND QUALITY CONTROL

11.1 General

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

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

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

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

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

11.2 Prohibition of Bypass of Treatment Works

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

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

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

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

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

- (i) Prohibited by the Department in consideration of the adverse effects of the bypass and the factors set out above, or
- (ii) Allowed under conditions determined to be necessary by the Department to minimize any adverse effects.

11.3 Special Condition - Disposal Systems with Septic Tanks

If a septic tank is installed as part of the disposal system, it shall be inspected by the permittee or his agent for scum and sludge accumulation at intervals not to exceed one year's duration, and such accumulation will be removed before the depth of either exceeds one-fourth ($\frac{1}{4}$) of the liquid depth so that no settleable solids or scum will leave in the septic tank effluent. Such accumulation shall be disposed of in an approved manner.

11.4 Sludge Disposal

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

1. The sources of the materials to be disposed of;
2. The approximate volumes and weights;
3. The method by which they were removed and transported;
4. Their final disposal locations.

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

12.1 GENERAL

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

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

c. The permittee shall require any industrial user of storm sewers to comply with the requirement of Section 308 of the Act.

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

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

12.2 NATIONAL PRETREATMENT STANDARDS: PROHIBITED DISCHARGES

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

§403.5 National Pretreatment Standards: Prohibited Discharges.

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

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

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

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

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

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

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

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

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

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



Copies:

Facility ID No. : NY- 008 9621

Effective Date (EDP) : - EDP

Expiration Date (ExDP) : 5 Years from EDP

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

Special Conditions
 (Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Permittee Name: Fairchild Republic Co. Attn: John Vicoli
 Waste Management Engineer

Permittee Street: Conklin Street

Permittee City: Farmingdale State: NY Zip Code: 11735

is authorized to discharge from the facility described below:

Facility Name: Fairchild Republic Co.

Facility Location (C,T,V): Babylon (T) County: Suffolk Co.

Facility Mailing Address (Street): Conklin Street

Facility Mailing Address (City): Farmingdale State: NY Zip Code: 11735

into receiving waters known as:
 Groundwater

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal as prescribed by Sections 17-0803 and 17-0804 of the Environmental Conservation Law and Parts 621, 752, and 755 of the Departments' rules and regulations.

By Authority of William L. Garvey, P.E., Chief, Permit Administration Section
 Designated Representative of Commissioner of the
 Department of Environmental Conservation

 Date Signature

Initial **EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning EDP and lasting until 20 months from EDP the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

<u>Outfall Number & Effluent Parameter</u>	<u>Discharge Limitations</u>		<u>Units</u>	<u>Monitoring Reqmts.</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
001 Flow		NA	GPD	Continuous	Recorded
Chromium - Hexavalent		.1	mg/l	Weekly	Grab
Chromium - Total		1	"	"	"
Fluoride		3	"	"	"
Zinc		5	"	"	"
pH (Range)	6.5 - 8.5		SU	"	"
002 No monitoring required. Sanitary wastes and compatible conventional wastes only.					
003 No monitoring required. Storm drain system only, no treated or untreated industrial or sanitary wastes shall be allowed.					
004 Flow		NA	GPD	When Discharging	Instantan
Oil & Grease		15	mg/l	"	Grab

NOTE 1: A short-term high-intensity sampling program for methylene chloride, tetrachloroethylene, toluene, trichloroethylene, 1,1,1-trichloroethane and xylene shall be implemented at 001. Analysis shall be by gas chromatography with a limit of detectability of .05, .002, .05, .01, .05 and .05 mg/l respectively. Results shall be expressed in mg/l and be submitted to the Bureau of Wastewater Facilities Design within three months of the date of the permit.

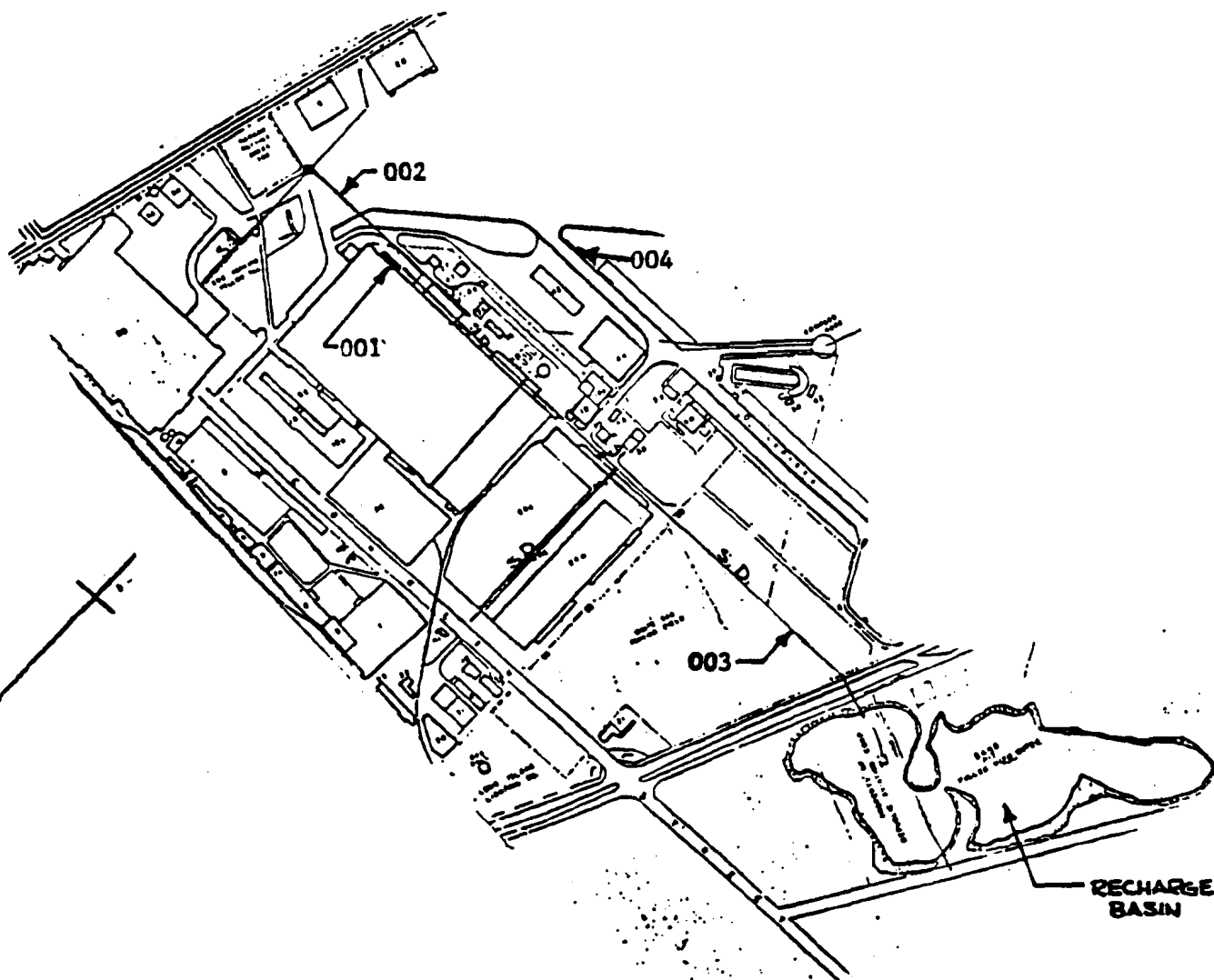
Definition of Daily Average and Daily Maximum

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location(s) indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate). From effluent prior to discharge to receiving waters.



SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS

(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
01	001	Submit Approvable Engineering Report	5 mos. from EDP
02	001	Submit Approvable Final Plans	8 mos. from EDP
04	001	Commence Construction	10 mos. from EDP
08	001	Complete Construction	19 mos. from EDP
09	001	Attain Operational Level	20 mos. from EDP

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS
(Continued)

c) The permittee shall submit copies of the written notice of compliance or noncompliance required herein to the following offices:

Chief, Compliance Section
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233

Regional Engineer - Region #1
New York State Department of Environmental Conservation
Building 40 - SUNY
Stony Brook, New York 11794

Suffolk County Department of Health Services
65 Jetson Lane - Box G
Central Islip, New York 11722

The permittee shall submit copies of any engineering reports, plans of study, final plans, as-built plans, infiltration-inflow studies, etc. required herein to the New York State Department of Environmental Conservation Regional Office specified above unless otherwise specified in this permit or in writing by the Department or its designated field office.

91-18-2 (9/76)

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)

During the period beginning November 1, 1980 and lasting until July 1, 1981, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts	
		kg/day Daily Avg.	(lbs/day) Daily Max.	Other Units (Specify) Daily Avg. Daily Max.		Measurement Frequency	Sample Type
003	<u>Storm Water Only</u>	- For disposal of storm water from the immediate property of Fairchild Republic Company. Any other sources to be disconnected, to prevent recharge sump overflow. All improper industrial and sanitary connections to be sealed. No overflow of storm water from sump to be allowed. Permittee subject to attached Schedule A and Schedule.					

*When natural groundwaters have a pH outside of range indicated, that natural pH may be one extreme of the allowable range.

*The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 1/day by using properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

- a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.
- b) The monitoring information required by this permit shall be summarized and reported by submitting a completed and signed Discharge Monitoring Report form once every 3 months to the Department of Environmental Conservation and other appropriate regulatory agencies at the offices specified below. The first report will be due no later than
Thereafter, reports shall be submitted no later than the 28th of the following month(s):

Water Division
New York State Department of Environmental Conservation
50 Wolf Road - Albany, New York 12233

New York State Department of Environmental Conservation
Regional Engineer - Region #1
Building 40 - SUNY
Stony Brook, New York 11794

Suffolk County Department of Health Services
65 Jetson Lane, Box G
Central Islip, New York 11722

(Applicable only if checked):

Dr. Richard Baker, Chief - Permits Administration Branch
Planning & Management Division
USEPA Region II
26 Federal Plaza
New York, New York 10278

- c) If so directed by this permit or by previous request, Monthly Wastewater Treatment Plant Operator's Reports shall be submitted to the DEC Regional Office and county health department or county environmental control agency specified above.
- d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Reports.
- f) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
- g) Unless otherwise specified, all information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- h) Blank Discharge Monitoring Report Forms are available at the above addresses.

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

GENERAL CONDITIONS
(PART II)

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PART II - GENERAL CONDITIONS

1. GENERAL PROVISIONS

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

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

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

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

e. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Environmental Conservation Law and the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

f. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

g. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

h. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until the facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced or lost.

i. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

j. The Clean Water Act provides that any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$100,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both.

k. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

l. The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

2. SPECIAL REPORTING REQUIREMENTS FOR EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL DISCHARGERS

a. All existing manufacturing, commercial, mining and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:

1. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels";

(1) One hundred micrograms per liter (100 µg/l);

(ii) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4 dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.53(d)(7) (effluent characteristics) or 40 CFR 122.53(d)(10) (potential discharges); or

(iv) The level established by the Department in accordance with 40 CFR 122.62(f) (new notification level).

2. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application under 40 CFR 122.53(d)(9) (used or manufactured toxics).

3. EXCLUSIONS

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

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

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

d. Oil and hazardous substance liability. The imposition of responsibilities upon, or the institution of any legal action against the permittee under Section 311 of the Clean Water Act shall be in conformance with regulations promulgated pursuant to Section 311 governing the applicability of Section 311 of the Clean Water Act to discharges from facilities with SPDES permits.

4. MODIFICATION, SUSPENSION, REVOCATION

a. If the permittee fails or refuses to comply with any requirement in an SPDES permit, such noncompliance shall constitute a violation of the permit for which the Commissioner may modify, suspend, or revoke the permit or take direct enforcement action pursuant to law. When, at any time during or prior to a period for compliance, the permittee announces or otherwise lets it be known, or the Commissioner on reasonable cause determines, that the permittee will not make the requisite efforts to achieve compliance with an interim or final requirement, the Commissioner may modify, suspend or revoke the permit and take direct enforcement action pursuant to law, without waiting for expiration of the period for compliance with such requirements.

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

1. Violation of any provision of this permit; or;

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

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

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

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

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

(iv) the classification of such waters, or

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

4. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification, revocation and reissuance, or suspension.

c. If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of the Clean Water Act for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in the permit, the Department shall institute proceedings to modify or revoke and reissue the permit to conform to the toxic effluent standard or prohibition.

REPORTING NONCOMPLIANCE

- a. Anticipated noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- b. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- c. 1. The following shall be included as information which must be reported within 24 hours under paragraph (b.) above:
 - (i) Any unanticipated bypass which violates any effluent limitation in the permit;
 - (ii) Any upset which violates any effluent limitation in the permit;
 - (iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.
2. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- d. Other noncompliance. The permittee shall report all instances of noncompliance not otherwise required to be reported under this section or other sections of this permit, when its Discharge Monitoring Reports are submitted. Such reports shall contain the information listed in paragraph (b.) above.
- e. Duty to mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

6. INSPECTION AND ENTRY

- a. The permittee shall allow the Commissioner of the Department, the EPA Regional Administrator, or their authorized representatives, upon the presentation of credentials and other documents as may be required by law, to:
 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or Environmental Conservation Law, any substances or parameters at any location.

7. TRANSFER OF PERMIT

- a. This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act or Environmental Conservation Law.
- b. Transfers by modification. Except as provided in paragraph (c.) of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
- c. Automatic transfers. As an alternative to transfers under paragraph (b.) of this section, any SPDES permit may be automatically transferred to a new permittee if:
 1. The current permittee notifies the Department at least 30 days in advance of the proposed transfer date in paragraph (c.) (2.) of this section;
 2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 3. The Department does not notify the existing permittee and the proposed new permittee of his or her intent to modify or revoke and reissue the permit. A modification under this subparagraph may also be a minor modification. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph (c.) (2.) of this section.

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

e. The Department may require the new permittee to submit a new application.

8. PERMIT RENEWAL

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

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

9. SPECIAL PROVISIONS - NEW OR MODIFIED DISPOSAL SYSTEMS

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

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

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

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

10. MONITORING RECORDING AND REPORTING

10.1 GENERAL

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

b. Samples and measurements taken to meet the monitoring requirements specified in this permit shall be representative of the volume and nature of the monitored discharge(s). As specified in this permit, composite samples means a flow proportioned sample that is composed of at least 8 aliquots collected at a constant volume or flow interval over the specified compositing period. Grab sample means a single aliquot taken over a period not exceeding 15 minutes.

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

d. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, shall upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation or by both.

10.2 SIGNATORIES AND CERTIFICATION

a. All reports required by this permit shall be signed as follows:

1. For a corporation: by a principal executive officer of at least the level of vice-president; or

2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

3. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official; or by

4. A duly authorized representative of the person described in items (1.), (2.), or (3.). A person is a duly authorized representative only if:

- (i) The authorization is made in writing by a person described in paragraph (a.)(1.), (2.), or (3.) of this section;
- (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
- (iii) The written authorization is submitted to the Department.

b. Changes to authorization: If an authorization under subparagraph (a.)(4.) of this section is no longer a because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of subparagraph (a.)(4.) of this section must be submitted to the Department prior to or with any reports, information, or applications to be signed by an authorized representative.

c. Certification: Any person signing a report shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

d. The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

10.3 RECORDING OF MONITORING ACTIVITIES AND RESULTS

a. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

b. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The individual(s) who performed the sampling or measurements;
3. The date(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

10.4 APPLICATION FOR ALTERNATE TEST PROCEDURES

a. The applicant shall submit an application to the Bureau of Monitoring and Assessment, Division of Water, New York State Department of Environmental Conservation, 50 Wolf Road, Albany, New York 12233.

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

1. Provide the name and address of the responsible person or firm making the discharge (if not the applicant) and the applicable ID number of the existing or pending permit, issuing agency, and type of permit for which the alternate test procedure is requested, and the discharge serial number.
2. Identify the pollutant or parameter for which approval of an alternate testing procedure is being requested.
3. Provide justification for using testing procedures other than those specified in Table I of Part 136 of Title 40 of the Code of Federal Regulations, or as amended.
4. Provide a detailed description of the proposed alternate test procedure, together with references to published studies of the applicability of the alternate test procedure to the effluents in question.

11. DISPOSAL SYSTEM OPERATION AND QUALITY CONTROL

11.1 GENERAL

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

b. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

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

d. The permittee shall not discharge floating solids or visible foam.

11.2 BYPASS

a. Definitions:

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

2. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations:

The permittee may allow any bypass to occur which does not cause effluent limitations to be violated, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (c.) and (d.) of this section.

c. Notice:

1. Anticipated bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass.

2. Unanticipated bypass - The permittee shall submit notice of an unanticipated bypass as required in Section 5, paragraph c. of this Part (24 hour notice).

d. Prohibition of bypass:

1. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(1i) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(1ii) The permittee submitted notices as required under paragraph (c.) of this section.

2. The Department may approve an anticipated bypass, after anticipating its adverse effects, if the Department determines that it shall:

(1) Meet the conditions listed above in paragraph (d.)(1.) of this section;

(1i) Be scheduled during non-critical water quality periods; and

(1ii) Be carried out in a manner approved by the Department.

11.3 UPSET

a. Definition:

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset:

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (c.) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset:

A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An upset occurred and that the permittee can identify the specific cause(s) of the upset;
2. The permitted facility was at the time being properly operated; and
3. The permittee submitted notice of the upset as required in Section 5, paragraph c. of this part (24 hour notice).
4. The permittee complied with any remedial measures required under Section 5, paragraph e. of this part.

d. Burden of proof:

In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

11.4 SPECIAL CONDITION - DISPOSAL SYSTEMS WITH SEPTIC TANKS

If a septic tank is installed as part of the disposal system, it shall be inspected by the permittee or his agent for scum and sludge accumulation at intervals not to exceed one year's duration, and such accumulation will be removed before the depth of either exceeds one-fourth (1/4) of the liquid depth so that no settleable solids or scum will leave in the septic tank effluent. Such accumulation shall be disposed of in an approved manner.

11.5 SLUDGE DISPOSAL

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

1. The sources of the materials to be disposed of;
2. The approximate volumes and weights;
3. The method by which they were removed and transported;
4. Their final disposal locations.

2. CONDITIONS APPLICABLE TO A PUBLICLY OWNED TREATMENT WORKS (POTW)

12.1 GENERAL

a. All POTWs must provide adequate notice to the Department of the following:

1. Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

3. For purposes of this paragraph, adequate notice shall include information on:

- (1) the quality and quantity of effluent introduced into the POTW; and
- (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

12.2 NATIONAL PRETREATMENT STANDARDS: PROHIBITED DISCHARGES

(Note: The following Section was published in the Federal Register, Vol. 46, No. 18 - Wednesday January 28, 1981. The effective date of the regulation (Part 403) was March 30, 1981)

§403.5 National Pretreatment Standards: Prohibited Discharges.

a. General prohibitions:

Pollutants introduced into POTW's by a non-domestic source shall not Pass Through the POTW or Interfere with the operation or performance of the works. These general prohibitions and the specific prohibitions in paragraph (b) of this section apply to all non-domestic sources introducing pollutants into a POTW whether or not the source is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

b. Specific prohibitions:

In addition, the following pollutants shall not be introduced into a POTW:

1. Pollutants which create a fire or explosion hazard in the POTW;
2. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0 unless the works is specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;
4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW.
5. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW approves alternate temperature limits.

c. When Specific Limits Must be Developed by POTW:

1. POTW's developing POTW Pretreatment Programs pursuant to § 403.8 shall develop and enforce specific limits to implement the prohibitions listed in § 403.5(a) and (b).
2. All other POTW's shall, in cases where pollutants contributed by User(s) result in Interference or Pass-Through, and such violation is likely to recur, develop and enforce specific effluent limits for Industrial User(s), and all other users, as appropriate, which, together with appropriate changes in the POTW Treatment Plant's Facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit or sludge use or disposal practices.
3. Specific effluent limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond.

d. Local Limits:

Where specific prohibitions or limits on pollutants or pollutant parameters are developed by a POTW in accordance with paragraph (c.) above, such limits shall be deemed Pretreatment Standards for the purposes of section 307(d) of the Act.

e. EPA and State Enforcement Actions:

• If, within 30 days after notice of an Interference or Pass Through violation has been sent to EPA or the NPDES State to the POTW, and to persons or groups who have requested such notice, the POTW fails to commence appropriate enforcement action to correct the violation, EPA or the NPDES State may take appropriate enforcement action.

f. Compliance Deadlines:

Compliance with the provisions of this section is required beginning on March 13, 1981, except for paragraph (b.) (5) of this section which must be complied with by August 25, 1981.

APPLICATION FORM "D" FOR A STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT (Becomes A SPDES Permit When Signed By Permit Issuing Official)

(PLEASE PRINT OR TYPE)

APPLICATION TYPE <input type="checkbox"/> New <input checked="" type="checkbox"/> Renewal <input type="checkbox"/> Modification		IF RENEWAL OR MODIFICATION, GIVE PREVIOUS NO. NY - 0074276	
OWNER'S NAME (Corporate, Partnership or Individual) Fairchild Republic Company			TYPE OF OWNERSHIP <input checked="" type="checkbox"/> Corporate <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Public
OWNER'S MAILING ADDRESS (Street, City, State, Zip Code) Plant Facilities, Bldg. 29-W, Farmingdale, New York 11735			
REFER ALL CORRESPONDENCE TO: (Name, Title and Address) G. Assmus, Facilities Manager (Same as above)			TELEPHONE NO. (Include Area Code) 516 531-2560
FACILITY NAME Fairchild Republic Company		FACILITY LOCATION (Street or Road) New Highway	
CITY, TOWN OR VILLAGE Babylon (T)		COUNTY Suffolk	
GIVE EXPLICIT DIRECTIONS TO LOCATION, IF NECESSARY Approx. 1/2 mile south of Conklin St. intersection with New Highway			
NATURE OF BUSINESS OR TYPE OF FACILITY Aircraft Manufacturer			POPULATION SERVED (See Instructions) 10,000
FREQUENCY OF DISCHARGE All Year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", Specify No. of Months _____ All Week? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", Specify No. of Days _____			
DOES YOUR DISCHARGE CONTAIN OR IS IT POSSIBLE FOR YOUR DISCHARGE TO CONTAIN ONE OR MORE OF THE FOLLOWING SUBSTANCES ADDED AS A RESULT OF YOUR OPERATIONS, ACTIVITIES OR PROCESSES? Please Check: <input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Ammonia <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input checked="" type="checkbox"/> Chlorine <input checked="" type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Cyanide <input type="checkbox"/> Grease <input type="checkbox"/> Lead <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Oil <input type="checkbox"/> Phenols <input type="checkbox"/> Selenium <input type="checkbox"/> Zinc <input type="checkbox"/> None of These			

DISCHARGE DATA (Use additional forms, if necessary) (See Instructions)			
OUTFALL NO. 1	<input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	DESIGN FLOW 500,000 Gal/D
TYPE OF WASTE Sanitary		TYPE OF TREATMENT Primary	
SURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If "Yes", Name of Receiving Waters Great South Bay	
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If "Yes", Name of nearest Surface Water Great South Bay	
Distance 3000 Ft.		SOIL TYPE Sand & Gravel	
Depth to Water Table 25 Ft.		Classification Waters Index No.	

I hereby affirm under penalty of perjury that information provided on this form and any attached supplemental forms is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

APPLICANT'S SIGNATURE (See Instructions) <i>G. Assmus</i>	Date 3/12/80	Printed Name G. Assmus	Title Facilities Manager
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PERMIT VALIDATION SECTION (Department of Environmental Conservation Use Only)		APPLICATION NO. NY-0074276	
This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act"), and subject to the attached conditions.		EFFECTIVE DATE 6-30-80	EXPIRATION DATE 6-30-85
ATTACHMENTS:			
Signature of Permit Issuing Official <i>Hurwood David</i>		Date 4/4/80	

Type Est 66	Type Own 68	SIC Code 70	# Out Falls 73 74	Dis Class 76	CARD 3	Region 71	County 72	Major Basin 74	Sub Basin 76	Compact Area 78	CARD 6	Latitude 53	Longitude 58 59	CARD 7	Lim Ino 57
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USE OF INFORMATION

All information contained in this application will, upon request, be made available to the public for inspection and copying. A separate sheet entitled "Confidential Answers" must be used to set out information which is considered by the applicant to constitute trade secrets. The information must clearly indicate the item number to which it applies. Confidential treatment can be considered only for that information for which a specific written request of confidentiality has been made on the attached sheet. However, in no event will identification of the contents, volume, and frequency of a discharge be recognized as confidential or privileged information, except in certain cases involving the national security.

POPULATION SERVED

For residential subdivisions, apartment or condominium developments or mobile home parks, give total number of lots or dwelling units. For retail and commercial establishments, give total number of employees and/or customers per day. For summer camps, resorts, etc. give total number of residents.

DISCHARGE DATA

For discharges to surfacewaters, each separate outfall pipe shall be assigned an outfall number. Surface-water discharges are outfalls to streams, lakes, ponds, ditches, oceans, etc. Subsurface disposal systems or discharges are discharges to groundwater such as seepage pits, seepage lagoons, tile fields, etc. Design flow is the average gallons per day of wastes that the disposal system is designed to handle. Examples of types of wastes are: sanitary (e.g. toilet, lavatory, showers, etc.), cooling, kitchen wastes (restaurants), laundry wastes (laundromats), filter backwash, etc. Examples of type of treatment are: septic tank-tile fields (or seepage pits), activated sludge, biodiscs, sand filtration, etc. Name of receiving water should be given for discharges to surfacewater if water body has a name, or designated as a tributary or subtributary of the nearest downstream named body of water. Class (official classification) and waters index number are published in the **Official Compilation of Codes, Rules and Regulations of the State of New York, Title 6 - Conservation Volumes B, C, D, E, F.** The name of and distance to the nearest surface water shall be given for subsurface disposal systems as well as the soil type (sand, gravel, etc.) and depth to the water table below the groundsurface. If this application is for a facility or subdivision which will have a number of similar disposal systems to handle the same type of wastes (for example, a 40 lot residential subdivision which will have an individual septic tank and leach field system on each lot), then the Discharge Data portion of this application should be completed using the following example as a guide:

SAMPLE:

DISCHARGE DATA (Use additional forms, if necessary) (See instructions)					
OUTFALL NO. 1-40	<input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE Sanitary	TYPE OF TREATMENT septic tank & leach field	DESIGN FLOW (each) 600 Gal/Day
SURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If "Yes", Name of Receiving Waters		Classification, Waters Index No.	
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If "Yes", Name of nearest Surface Water Brown Brook		Distance 500 Ft.	SOIL TYPE Sandy loam
Depth to Water Table 10 feet					

SIGNATURE ON APPLICATION

An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, state, federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

REQUIRED EFFLUENT LIMITATIONS

During the period beginning on EDP and lasting until

6-30-85, discharges from outfalls 001 shall be

limited and monitored by the permittee as specified below:

TABLE 1

<u>Outfall Number</u>	<u>Effluent Limitations (Maximum Limits except where otherwise indicated)</u>		
#001	(x) Flow	30 day arithmetic mean	<u>0.5</u> MGD
	(x) BOD ₅	30 day arithmetic mean	_____ mg/l and _____ lbs/day*
	(x) SOD ₅	7 day arithmetic mean	_____ mg/l and _____ lbs/day
	(x) BOD ₃	Daily Max.	<u>135</u> mg/l and <u>210</u> lbs/day
	() TGD (See Note Below)	Daily	_____ mg/l and _____ lbs/day
	(x) Suspended Solids	30 day arithmetic mean	_____ mg/l and _____ lbs/day*
	(x) Suspended Solids	7 day arithmetic mean	_____ mg/l and _____ lbs/day
	(x) Suspended Solids	Daily Max.	<u>85</u> mg/l and <u>133</u> lbs/day
	(x) Fecal Coliform	30 day geometric mean	<u>200</u> /100 ml
	(x) Fecal Coliform	7 day geometric mean	<u>400</u> /100 ml
	() Total Coliform	Daily	_____ /100 ml
	() Total Kjeldahl Nitrogen	Daily	_____ /mg/l as N
	() Ammonia	Daily	_____ mg/l as NH ₃
	() Dissolved Oxygen	Minimum	greater than _____ mg/l
	(x) pH	Range	<u>6.5</u> to <u>8.5</u>
	() Settleable Solids	Daily	less than _____ ml/l
	(x) Chlorine Residual	Minimum	<u>0.5</u> mg/l
	() Phosphorus	Daily	_____ mg/l as P
	() Total Nitrogen	Daily	_____ mg/l as N

* and effluent values shall not exceed _____ % of influent values

TABLE 2

Monitoring Requirements

<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
(x) Total Flow, MGD	<u>Daily</u>	<u>grab</u>
(x) BOD ₅ , mg/l	<u>Monthly</u>	<u>grab</u>
(x) Suspended Solids	<u>Monthly</u>	<u>grab</u>
(x) Fecal Coliform, No./100 ml	<u>Monthly</u>	<u>grab</u>
() Total Coliform, No./100 ml	<u>omit</u>	_____
() Total Kjeldahl Nitrogen, mg/l as N	_____	_____
() Ammonia, mg/l as NH ₃	_____	_____
() Dissolved Oxygen, mg/l aeration tank	<u>daily</u>	<u>grab</u>
(x) pH	<u>daily</u>	<u>grab</u>
() Settleable Solids, ml/l	_____	_____
(x) Residual Chlorine, mg/l	<u>daily</u>	<u>grab</u>
() Phosphorus, mg/l as P	_____	_____
() Temperature, °C	_____	_____
(x) Total Nitrogen, mg/l as N	_____	_____
(x) Digester SS (fixed & volatile) with scavenger pickup	_____	_____

NOTE: Upon completion of the Southwest Sewer District wastewater treatment plant & collection system in your area existing plant to be decommissioned and all discharges shall be to the above referenced district.

This permit and the authorization to discharge shall expire on midnight
5 years from date of issuance. Permittee shall not discharge after the above
(Give Date)

date of expiration. In order to receive authorization to discharge beyond the above
date of expiration, the permittee shall submit such information, forms, and fees
as are required by the Department of Environmental Conservation no later than
180 days prior to the above date of expiration.

By Authority of _____
Designated Representative of Commissioner of the
Department of Environmental Conservation

Date

Signature

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate).

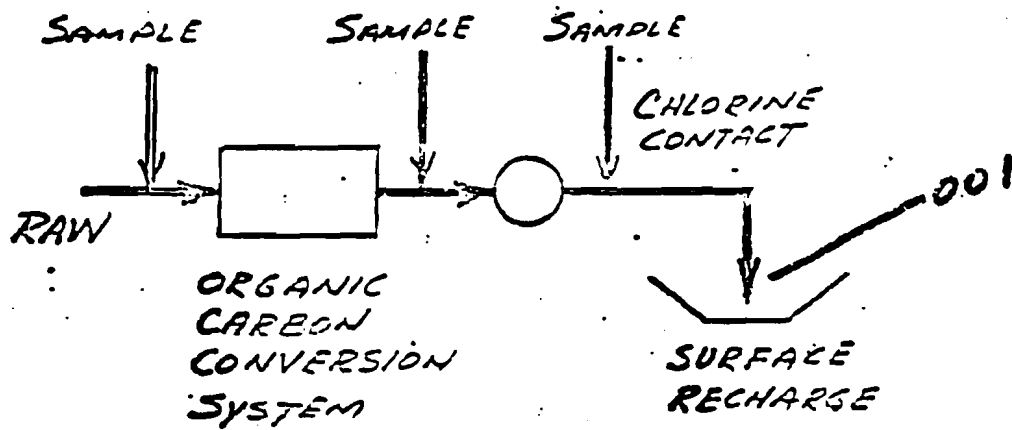




Exhibit A

P. A.



PETER A. A. BERLIN
Commissioner

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 20, 1977

PETER A. A. BERLIN

Fairchild Republic Co.
Farmingdale, New York 11735

Attn: Mr. Russell Gray, Supervisor/Plant Engineering

Re: Modification of Pollutant
Discharge Elimination System
Permit No. NY-0089621 (GWI)
Babylon (X) (T) (X)
Suffolk County

Dear Mr. Gray:

This is to inform you that pursuant to Environmental Conservation Law ("ECL"), Article 17, Title 8 (McKinney's) and 6 NYCRR, Part 757, the New York State Department of Environmental Conservation has determined to modify your referenced Pollutant Discharge Elimination System Permit as follows:

Under Final Effluent Limitations & Monitoring Requirements on Outfall 003, change Effluent Parameter from "Storm and Cooling Water" to "Storm Water Only."

If applicable, the modified page or pages of the Permit are enclosed and should be attached to your copy of the Permit. Please mark the previous corresponding page(s) as superceded. The remainder of the Permit continues in full force and effect.

Very truly yours,

George K. Hansen, P.E.
Chief, P.D.E.S. Permit Section
Division of Pure Waters

Enclosure

cc: Region # 1
Mr. Crandall
Mr. Pagano - BIP
Suffolk Co. BEC

4/27
RUSSELL GRAY
SEE ME
JG

Final EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning April 1, 1978, and lasting until July 1, 1981, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Effluent Number	Parameter	Discharge Limitations				Monitoring Reqs.	
		kg/day (lbs/day)	Other Units (Specify)	Measurement	Sample		
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Type
002	Sanitary Wastes	For sanitary and compatible industrial wastes as outlined in engineering report (Including the treated effluent from industrial wastes 001)					
003	Storm Water Only	- For disposal of storm water from the immediate property of Fairchild Republic Co. Any other sources to be disconnected, to prevent recharge sump overflow. All improper industrial and sanitary connections to be sealed. No overflow of storm water from sump to be allowed. Permittee subject to attached Schedule A and Schedule B.					

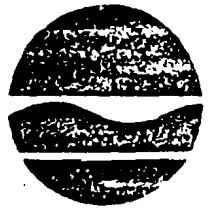
** When natural groundwaters have a pH outside of range indicated above, that natural pH may be one extreme of the allowable range.

The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily for outlet 001 and once daily for outlet 003 using properly calibrated pH meter. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate unit as specified herein, during any calendar day.

T.W.



New York State Department of Environmental Conservation
Room 201, 50 Wolf Road, Albany, New York 12233

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Peter A.A. Berle
Commissioner

January 17, 1977

Fairchild Republic Co.
Farmingdale, New York 11735
Attn: Mr. Bill Gray
Superintendent/Plant Engineering

Re: Pollutant Discharge Elimination
System Permit No. NY-0089621 (GWI)
Babylon (T), Suffolk Co.
Fairchild Republic Co.

Dear Mr. Gray:

This is to inform you that pursuant to Environmental Conservation Law ("ECL"), Article 17, Title 8 (McKinney's) and 6 NYCRR, Part 757, the New York State Department of Environmental Conservation has determined to modify your referenced Pollutant Discharge Elimination System Permit as follows:

Under Final Effluent Limitations & Monitoring Requirements,

1. Outfall 001 - add aluminum of 2.0 mg/l daily max., and Iron of 0.6 mg/l daily max. both to be monitored monthly with a weekly composite sample.
2. Change the monitoring program for Cr⁺⁶ from monthly to weekly. *OK - DOING THIS NOW*
3. Outfall 003 - change Effluent Parameter from "Storm Water Only" to "Storm and Cooling Jets"
4. Outfall 003 shall be monitored 2/day for Outfall 001 and daily for Outfall 003.

If applicable, the modified page or pages of the Permit are enclosed and should be attached to your copy of the Permit. Please mark the previous corresponding page(s) as superceded. The remainder of the Permit continues in full force and effect.

Unless otherwise specified, this modification will become effective thirty (30) days from the date of this letter. You have the right to petition, pursuant to ECL Section 17-0907, that you be given an opportunity to be heard in connection with this determination and where applicable, a written objection is received from the Regional Administrator of EPA. Any petition for a hearing shall contain specific evidence to support your contention that a hearing is necessary.

Very truly yours,
George K. Hansen

George K. Hansen, P.E.
Chief, P.D.E.S. Permit Section
Division of Pure Waters

Enclosures
cc: Mr. J. Gray
Mr. J. Gray 11

Final EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning April 1, 1978, and lasting until July 1, 1981, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts.	
		kg/day	(lbs/day)	Other Units (Specify)		Measurement Frequency	Sample Type
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.		
002	Sanitary Wastes	For sanitary and compatible industrial wastes as outlined in engineering report. (Including the treated effluent from industrial wastes 001)					
003	Storm and Cooling Water	- For disposal of storm water from the immediate property of Fairchild Republic Co. Any other sources to be disconnected, to prevent recharge sump overflow. All improper industrial and sanitary connections to be sealed. No overflow of storm water from sump to be allowed. Permittee subject to attached Schedule A and Schedule B.					

** When natural groundwaters have a pH outside of range indicated above, that natural pH may be one extreme of the allowable range.

The pH shall not be less than 6.5 standard units and greater than 8.5 standard units and shall be monitored as follows: 2/daily for outlet 001 and once daily for outlet 002. Samples taken in accordance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein during a calendar month divided by the number of days in the month that the commercial facility was operating. Where less than daily samplings are required by the permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein during any calendar day.

MODIFIED 2/17/77

Part I
Page 3 of 8
Facility ID No.:NY-0089621

Final EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning April 1, 1978 and lasting until July 1, 1981 the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Effluent Number	Parameter	Discharge Limitations				Monitoring Reqmts.	
		kg/day (lbs/day) Daily Avg.	Other Units (Specify) Daily Max.	Daily Avg.	Daily Max.	Measurement Frequency	Sample Type
001	Flow - Industrial Wastes				288,000 gpd		daily const.
	Chromium, hexavalent				0.1 mg/l	Weekly	Wk. comp.
	Chromium, total				2.0 "	Monthly	"
	Fluoride				3.0 "	"	"
	Zinc				0.6 "	"	"
	Silver				0.1 "	"	"
	Nitrogen, Total				10.0 "	"	"
	Aluminum				2.0 "	"	"
	Iron				0.6 "	"	"
	Vanadium				Monitor	"	"
	Titanium				"	"	"

SEE SPECIAL NOTES ON PAGE 4

The pH shall not be less than _____ standard units nor greater than _____ standard units and shall be monitored as follows:

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein during a calendar month divided by the number of days in the month that the permitted commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein during any calendar day.

SCHEDULE A

By initiating construction of the approved works, the permittee accepts and agrees to abide by and conform with the following:

1. That upon completion of construction, accurate as-built drawings prepared by a New York State Professional Engineer shall be submitted to the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control for permanent records showing all pertinent details of the collection, treatment and disposal system including pipe locations and elevations, all plumbing, electrical and mechanical drawings, general layout, equipment design and hydraulic profiles.
2. That acceptance and approval of the waste disposal facility does not constitute approval of the structural stability by the New York State Department of Environmental Conservation or Suffolk County Department of Environmental Control.
3. That if changes are contemplated to the approved plan, such changes shall be submitted in writing to New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control and receive written approval before being initiated.
4. That a comprehensive operating and testing manual shall be provided to the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control and to the owner to be kept in a satisfactory location at the treatment plant prior to final approval to operate.
5. That a comprehensive equipment maintenance and repair manual shall be provided to the owner prior to final approval to operate.
6. That all equipment warranties shall be properly signed and validated prior to approval to operate.
7. That no industrial wastes, cooling water, or storm drainage shall be allowed to flow to sanitary waste disposal systems.
8. That routine sampling and testing of plant flow shall be performed for the purposes of proper operation control and surveillance in accordance with the permit schedule and that such additional laboratory equipment and testing as may be required by the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control be supplied and performed.
9. That summary reports of the operation of the treatment works including laboratory tests and measurements of the influent unit effluents and plant effluent and results therefrom shall be submitted to New York State Department of Environmental Conservation and Suffolk County Department of Environmental on forms furnished by or satisfactory to the Departments and that operating records shall be kept at the treatment works.

18. That the removal of sludge or other liquid waste from the plant site shall be accomplished by an approved scavenger to an approved site in a manner and at a time so as to minimize any nuisance created by noise or odor. No spillage of waste onto the surface of the ground shall be permitted. Permanent records shall be kept at the plant giving date, time, amount, type and name of scavenger for all waste removed from the plant site.
19. That if a public nuisance situation occurs in the opinion of the permit issuing authority, which is resulting in public complaint due to odor, overflows, spillage or other causes, the owner shall take all feasible action to control the nuisance, and that failure to initiate such action shall be considered as a violation of permit. "Feasible action" includes but is not limited to installation of odor control devices.
20. That if transfer of this permit and its attendant obligations to another permittee is desired, the permittee of record and the assuming permittee shall so petition the New York State Department of Environmental Conservation in writing. Transfer shall become effective on the date prescribed in the written notification of such transfer to be furnished to both the original and the assuming permittees by the New York State Department of Environmental Conservation.
21. That this permit be kept readily available at the treatment facility.

SCHEDULE #

- * Daily composite slurry consists of flow proportional hourly samples taken during actual process operations and combined once a week for analysis. The sample shall be tested in conformance with procedures contained in Section 304 (g) of Federal Water Pollution Control Act.
- ** Parameters which cannot be preserved for several days shall be tested once per week during a period that is representative of actual process conditions.

**Color, Cyanide, Dissolved Oxygen, Iron, SO_4 , CO_2 , TSS (MS), Volatile

Final **EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning 20 months from EDP
 and lasting until 5 years from EDP
 the discharges from the permitted facility shall be limited and monitored by the
 permittee as specified below:

<u>Outfall Number & Effluent Parameter</u>	<u>Discharge Limitations</u>		<u>Units</u>	<u>Monitoring Recmts.</u>	
	<u>Daily Avr.</u>	<u>Daily Max.</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
001 Flow		NA	GPD	Continuous	Recorded
Aluminum-Total		2	mg/l	Weekly	Composit
Copper-Total		1	"	"	"
Chromium - Total		1	"	"	"
Chromium - Hexavalent		.1	"	"	"
Fluoride		3	"	"	"
Iron - Total		.6	"	"	"
Lead - Total		.05	"	"	"
Silver - Total		.1	"	"	"
Sulfide		1	"	"	"
Phenol		.002	"	"	"
Total Nitrogen		10	"	"	"
Oil & Grease		15	"	"	Grab
pH (Range)	6.5 - 8.5		SU	"	"

002 No monitoring required. Sanitary wastes and compatible conventional industrial wastes on

003 No monitoring required. Storm drain system only, no treated or untreated industrial
 or sanitary waste shall be allowed.

004 Flow		NA	GPD	When Discharging	Instantan.
Oil & Grease		15	mg/l	"	Grab



Copies: SPDES File

Reg. 1-Ref.#47-0775 Facility ID No. : NY-0089621
Suffolk Co. DHS
Mr. Crandall - BMS Effective Date : July 1, 1976
Mr. Pagano - BIP Expiration Date : July 1, 1981

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

Attch: Part II-Gen'l Cond DISCHARGE PERMIT
Schedules "A" & "B" MODIFIED: 2/28/79
Special Conditions
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Fairchild Republic Company
Conklin Street
Farmingdale, NY 11735

Attn: Mr. Russell Gracy

is authorized to discharge from the facility described below:

Fairchild Republic Company
Conklin Street

Babylon (T), Suffolk Co.

into receiving waters known as:

Groundwater - Class GA

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or written authorization is given by the Department. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the Department of Environmental Conservation no later than 180 days prior to the expiration date.

By Authority of George K. Hansen, P.E., Chief, PDES Permit Section
Designated Representative of Commissioner of the
Department of Environmental Conservation

2/28/79
Date

George K. Hansen
Signature

INITIAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning July 1, 1976 and lasting until April 1, 1978, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts.	
		(kg/day)	(lbs/day)	Other Units	(Specify)	Measurement	Sample Type
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Type
001	Flow-Industrial Wastes*				288,000 gpd	Daily	Contin
	Cr+6				0.1 mg/l	weekly	grab
	Cr-Total				2.0 mg/l	weekly	grab
	Fluoride				3.0 mg/l	weekly	grab
	Zn				0.6 mg/l	weekly	grab
002	Sanitary Waste - To Fairchild Republic Sewage Treatment Plant. SPDES Permit No. NY-0074276.						

NOTE: *Industrial waste treatment plant effluent and miscellaneous untreated industrial discharge. Presently all discharge from 001 is going into 003.

Permittee also subject to attached Schedule "A"

**The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily using a properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day. **When natural groundwaters have a pH outside or range indicated above, that natural pH may be one extreme of the allowable range.

INITIAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)
 effective date

During the period beginning of modification and lasting until November 1, 1980, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts	
		kg/day (lbs/day) Daily Avg.	kg/day (lbs/day) Daily Max.	Other Units (Specify) Daily Avg. Daily Max.		Measurement Frequency	Sampling Type
003	Storm Drainage System	- Discharge to recharge sump on west side of Route 110. Present capacity is being exceeded partly due to the continuous discharge from 001.					

Permittee also subject to attached Schedule A

*When natural groundwaters have a pH outside of range indicated above, that natural pH may be one extreme of the allowable range.

* The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 1/day by using properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning April 1, 1978 and lasting until July 1, 1981, the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

<u>Outfall Number</u>	<u>Effluent Parameter</u>	<u>Discharge Limitations</u>				<u>Monitoring Reqmts.</u>	
		<u>kg/day</u> <u>Daily Avg.</u>	<u>(lbs/day)</u> <u>Daily Max.</u>	<u>Other Units (Specify)</u> <u>Daily Avg. Daily Max.</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
002	Sanitary Wastes for sanitary and compatible industrial wastes as outlined in engineering report (Including the treated effluent from industrial wastes 001).						

Permittee also subject to attached Schedule A.

*When natural groundwaters have a pH outside of range indicated, that natural pH may be one extreme of the allowable range.

*The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily for outlet 002 using properly calibrated pH meter.
 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

SPECIAL NOTES

- 1 - Since the Fairchild Republic Sewage Treatment Plant has adequate reserve disposal facilities presently idle, the engineering consultant recommends that the pre-treated industrial wastewater be tied into the sanitary sewage collection system, until the facilities of the Suffolk County South West District are available this will eliminate the overloading of the storm water recharge sump 003.
- 2 - Any waste not compatible with the sewage treatment plant or industrial waste treatment plant that is discharged to either above ground or in-ground holding tanks or containers such as waste conc. acids, waste oil, waste conc. caustic, waste fuel, waste solvents and industrial waste treatment plant sludge, but not limited specifically to these, must be removed from site by an approved industrial waste scavenger to a site outside Suffolk Co. No discharge of these wastes will be allowed onto surface or ground waters. Overflow or spillage into the surface of the ground will not be allowed. Waste removal records must be maintained for review by appropriate personnel.
- 3 - The discharge of Polychlorinated Biphenyls (PCBs) shall be prohibited.



Copies: SPDES File Facility ID No. : NY-0089621
 Region 1-Ref. #47-0775
 Suffolk Co. DEC Effective Date : July 1, 1976
 Mr. Crandall
 Mr. Pagano Expiration Date : July 1, 1981

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)
DISCHARGE PERMIT
Attach: Part II-Gen'l Cond.
Schedules "A" & "B"

Special Conditions
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Fairchild Republic Company
Conklin Street
Farmingdale, New York 11735
Attn: Mr. Russell Gracy

is authorized to discharge from the facility described below:

Fairchild Republic Company
Conklin Street
Babylon (T), Suffolk Co.

into receiving waters known as:

Groundwater - Class GA

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or written authorization is given by the Department. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the Department of Environmental Conservation no later than 180 days prior to the expiration date.

By Authority of George K. Hansen, P.E., Chief, PDES Permit Section
Designated Representative of Commissioner of the
Department of Environmental Conservation

6-7-76
Date

George K. Hansen
Signature

INITIAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning July 1, 1976 and lasting until 21 mo. from EDP the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Effluent Number	Parameter	Discharge Limitations				Monitoring Reqmts.	
		(kg/day Daily Avg.)	(lbs/day Daily Max.)	Other Units Daily Avg.	(Specify) Daily Max.	Measurement Frequency	Sample Type
001	Flow-Industrial Wastes*				288,000 gpd	Daily	Continu
	Cr ⁺⁶				0.1 mg/l	weekly	grab
	Cr-Total				2.0 mg/l	weekly	grab
	Fluoride				3.0 mg/l	weekly	grab
	Zn				0.6 mg/l	weekly	grab
002	Sanitary Waste - To Fairchild Republic Sewage Treatment Plant. SPDES Permit No. NY-0074276.						
003	Storm Drainage System - Discharge to recharge sump on west side of of Rte. 110. Present capacity is being exceeded partly due to the continuous discharge from 001						

NOTE: *Industrial waste treatment plant effluent and miscellaneous untreated industrial discharge. Presently all discharge from 001 is going into 003.

Permittee also subject to attached Schedule "A"

**The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily using a properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day. **When natural groundwaters have a pH outside of range indicated above, that natural pH may be one extreme of the allowable range.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning April 1, 1978 and lasting until July 1, 1981 the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Effluent Number	Parameter	Discharge Limitations				Monitoring Reqmts.	
		(kg/day Daily Avg.)	(lbs/day Daily Max.)	Other Units Daily Avg.	(Specify) Daily Max.	Measurement Frequency	Sample Type
001	Flow - Industrial Wastes			288,000	gpd	daily	Continu
	Cr ⁺⁶				0.1 mg/l	monthly	1 wk. cc
	Cr-Total				2.0 mg/l	" "	" "
	Fluoride				3.0 mg/l	" "	" "
	Zn				0.6 mg/l	" "	" "
	Ag				0.1 mg/l	" "	" "
	Total N				10.0 mg/l	quarterly	" "
	Vanadium				Monitor	" "	" "
	Titanium				" "	" "	" "

SEE SPECIAL NOTES ON PAGE 4

- 002 Sanitary Wastes - For sanitary waste and compatible industrial wastes as outlined in engineering report. (Including the treated effluent from industrial wastes 001)
- 003 Storm Water Only - For disposal of storm water from the immediate property of Fairchild-Republic Co. Any other sources to be disconnected, to prevent recharge sump overflow. All improper industrial connections to be sealed. No overflow of storm water from sump to be allowed.

Permittee also subject to attached Schedule "A" and ^{*}Schedule "B".

**The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and shall be monitored as follows: 2/daily using a properly calibrated pH meter.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day. **When natural groundwaters have a pH outside or range indicated above, that natural pH may be one extreme of the allowable range.

SPECIAL NOTES

- 1 - Since the Fairchild Republic Sewage Treatment Plant has adequate reserve disposal facilities presently idle, the engineering consultant recommends that the pre-treated industrial wastewater be tied into the sanitary sewage collection system, until the facilities of the Suffolk County South west District are available this will eliminate the overloading of the storm water recharge sump 003.
- 2 - Any waste not compatible with the sewage treatment plant or industrial waste treatment plant that is discharged to either above ground or in-ground holding tanks or containers such as waste conc. acids, waste oil, waste conc. caustic, waste fuel, waste solvents and industrial waste treatment plant sludge, but not limited specifically to these, must be removed from site by an approved industrial waste scavenger to a site outside Suffolk Co. No discharge of these wastes will be allowed onto surface or ground waters. Overflow or spillage into the surface of the ground will not be allowed. Waste removal records must be maintained for review by appropriate personnel.
- 3 - The discharge of Polychlorinated Biphenyls (PCBs) shall be prohibited.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS

(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
1	001, 002, 003	Submit Approvable Engineering Report by:	September 1, 1976
2	"	Submit Approvable Final Plans by:	March 1, 1977
4	"	Commencement of Construction by:	July 1, 1977
8	"	Completion of Construction by:	January 1, 1978
9	"	Attainment of Operational Level by:	April 1, 1978

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or non-compliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS
(Continued)

c) The permittee shall submit copies of the written notice of compliance or noncompliance required in section (b) to the following offices:

Chief, Compliance Section
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233

Regional Engineer - Region #1
New York State Department of Environmental Conservation
Building 40 - SUNY
Stoney Brook, New York 11794

and
Suffolk Co. Dept. of Environmental Control
1324 Motor Parkway
Hauppauge, New York 11787

d) The permittee shall submit copies of any engineering reports, plans of study, final plans, as-built plans, infiltration-inflow studies, etc. required by this permit to the following offices, unless otherwise specified in this permit or in writing by the Department or its designated field office:

Regional Office #1 - 3 Copies

Suffolk County Dept. of Environmental Control - 1 copy

MONITORING, RECORDING AND REPORTING

a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized and reported by submitting a completed and signed Discharge Monitoring Report form once every 1 months to the Department of Environmental Conservation and other appropriate regulatory agencies at the offices specified below. The first report will be due no later than August 28, 1976. Thereafter, reports shall be submitted no later than the 28th of the following month(s): Monthly

Chief, Waste Source Monitoring Section
New York State Department of Environmental Conservation
Room 300 - 50 Wolf Road - Albany, New York 12233

Regional Engineer - Region #1
New York State Department of Environmental Conservation
Building 40 - SUNY
Stoney Brook, New York 11794

and
Suffolk Co. Dept. of Environmental Control
1324 Motor Parkway
Hauppauge, New York 11787

c) If so directed by this permit or by previous request, Monthly Wastewater Treatment Plant Operator's Reports shall be submitted to the DEC Regional Office and county health department or county environmental control agency specified above.

d) Each submitted Discharge Monitoring Report shall be signed as follows:

1. If submitted by a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the Discharge Monitoring Report originates;

2. If submitted by a partnership, by a general partner;

3. If submitted by a sole proprietor, by the proprietor;

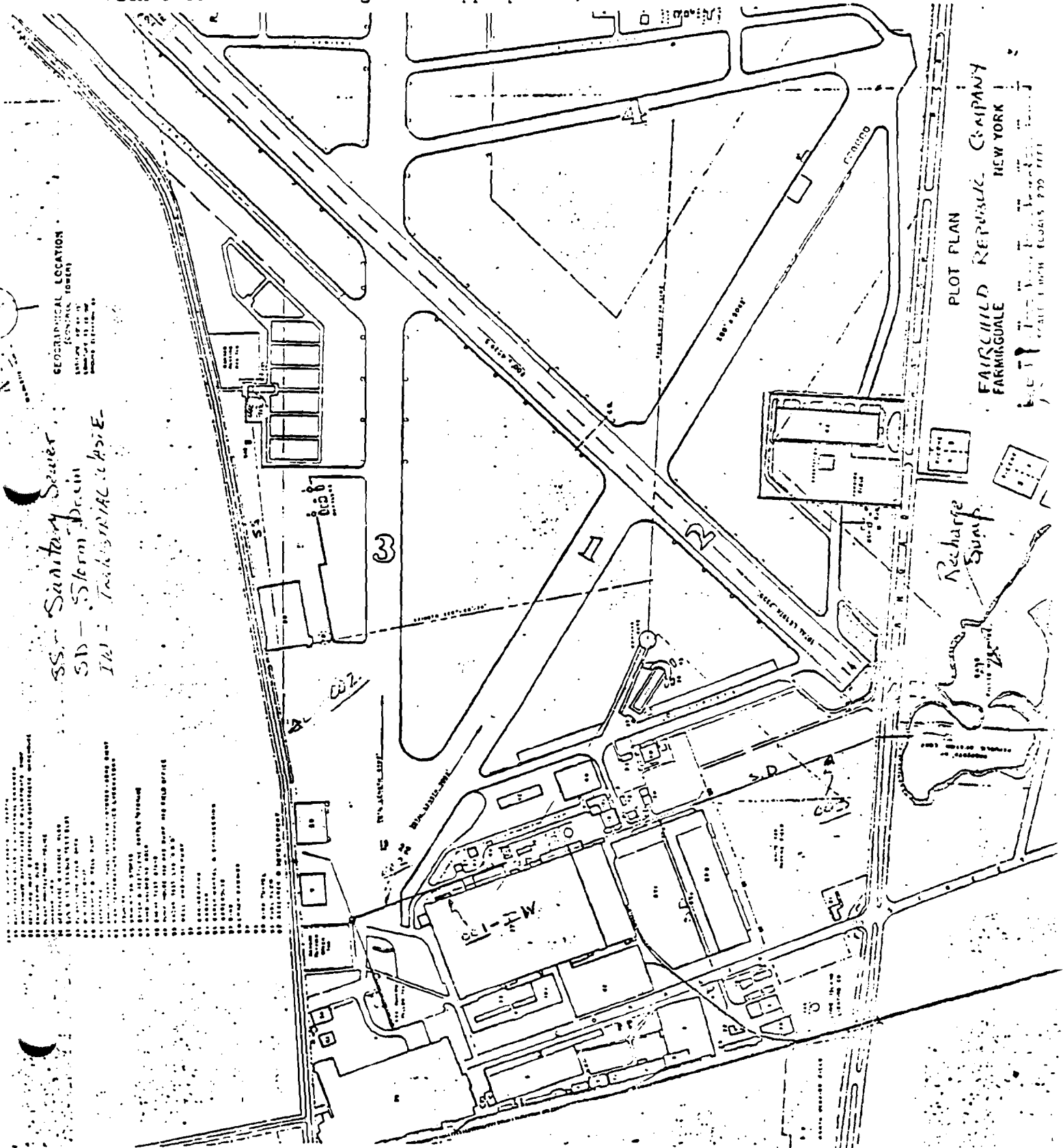
4. If submitted by a municipality, State or Federal agency, or other public entity; by a principal executive officer, ranking elected official, commanding officer, or other duly authorized employee.

e) Unless otherwise specified, all information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the most recently completed reporting period.

f) Blank Discharge Monitoring Report Forms are available at the above addresses.

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location(s) indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate).



SCHEDULE A

By initiating construction of the approved works, the permittee accepts and agrees to abide by and conform with the following:

1. That upon completion of construction, accurate as-built drawings prepared by a New York State Professional Engineer shall be submitted to the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control for permanent records showing all pertinent details of the collection, treatment and disposal system including pipe locations and elevations, all plumbing, electrical and mechanical drawings, general layout, equipment design and hydraulic profiles.
2. That acceptance and approval of the waste disposal facility does not constitute approval of the structural stability by the New York State Department of Environmental Conservation or Suffolk County Department of Environmental Control.
3. That if changes are contemplated to the approved plan, such changes shall be submitted in writing to New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control and receive written approval before being initiated.
4. That a comprehensive operating and testing manual shall be provided to the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control and to the owner to be kept in a satisfactory location at the treatment plant prior to final approval to operate.
5. That a comprehensive equipment maintenance and repair manual shall be provided to the owner prior to final approval to operate.
6. That all equipment warranties shall be properly signed and validated prior to approval to operate.
7. That no industrial wastes, cooling water, or storm drainage shall be allowed to flow to sanitary waste disposal systems.
8. That routine sampling and testing of plant flow shall be performed for the purposes of proper operation control and surveillance in accordance with the permit schedule and that such additional laboratory equipment and testing as may be required by the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control be supplied and performed.
9. That summary reports of the operation of the treatment works including laboratory tests and measurements of the influent unit effluents and plant effluent and results therefrom shall be submitted to New York State Department of Environmental Conservation and Suffolk County Department of Environmental on forms furnished by or satisfactory to the Departments and that operating records shall be kept at the treatment works.

10. That a responsible and reliable operator shall be available on call at all times for immediate response to emergency conditions. The name and emergency phone number of this person shall be permanently posted in clear view of the public at the plant site.
11. That this plant shall be visited each and every day by the certified operator or his properly designated employee and the visit shall include a complete walk-around inspection of all components and every piece of equipment. Required samples shall be taken on schedule and necessary readings recorded. A time log book shall be maintained in good order at the plant giving date, time in, time out, any unusual occurrences and the operator's signature.
12. That should any unusual situation occur caused by a deviation from normal operation and creating a potentially hazardous condition or gross violation, the permittee will immediately notify the New York State Department and Suffolk County Department of Environmental Control when such condition begins and when the condition ceases.
13. That the facilities shall be maintained at all times in a safe, clean, neat, orderly and inoffensive manner, all equipment maintained in optimum operating condition with all necessary tools and spare parts on hand to prevent undue outage.
14. That the waste treatment facility shall at all times be maintained in a safe condition satisfactory to protect the plant employees and the general public from any hazard created by the existence of operation of the treatment facility. Necessary precautions to accomplish this shall include but not be limited to: guardrails, warning signs, color coding and labeling, guards on shafts and other moving parts, safety equipment, proper tools, warning lights and alarms, and backflow prevention devices on potable drinking water supply.
15. That all below or above ground outdoor chemical or waste storage tanks shall be emptied yearly and inspected hydrostatically, visually or both for leaks which might cause undetected groundwater contamination.
16. That leaching beds must be operated on a rotational basis using alternate dosing and drying cycles preventing the long-term ponding of stagnant water and that when the leaching rate declines in a bed it must be immediately removed from service dried, cleaned and regraded.
17. That sludge shall not be allowed to accumulate in any leaching bed or other component of the plant or collection system in sufficient quantity so as to cause decomposition and uncontrolled odor production.

18. That the removal of sludge or other liquid waste from the plant site shall be accomplished by an approved scavenger to an approved site in a manner and at a time so as to minimize any nuisance created by noise or odor. No spillage of waste onto the surface of the ground shall be permitted. Permanent records shall be kept at the plant giving date, time, amount, type and name of scavenger for all waste removed from the plant site.
19. That if a public nuisance situation occurs in the opinion of the permit issuing authority, which is resulting in public complaint due to odor, overflows, spillage or other causes, the owner shall take all feasible action to control the nuisance, and that failure to initiate such action shall be considered as a violation of permit. "Feasible action" includes but is not limited to installation of odor control devices.
20. That if transfer of this permit and its attendant obligations to another permittee is desired, the permittee of record and the assuming permittee shall so petition the New York State Department of Environmental Conservation in writing. Transfer shall become effective on the date prescribed in the written notification of such transfer to be furnished to both the original and the assuming permittees by the New York State Department of Environmental Conservation.
21. That this permit be kept readily available at the treatment facility.

SCHEDULE B

- * Weekly composite shall consist of flow proportional hourly samples taken during actual process operations and combined once a week for analysis. The sample shall be tested in conformance with procedures contained in Section 304 (g) of Federal Water Pollution Control Act.
- ** Parameters which cannot be preserved for several days shall be tested once per week during a period that is representative of actual process conditions.

**Color, cyanide, dissolved oxygen, Phenol, DOB, COB, NH3 (NH3), Soliform.

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

(PART II)

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PART II - GENERAL CONDITIONS

GENERAL PROVISIONS

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

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

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

PROHIBITIONS

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

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

- (2) Any discharge which the Secretary of the Army acting through the Chief of Engineers finds would substantially impair anchorage and navigation;
- (3) Any discharge to which the Regional Administrator has objected in writing pursuant to any right to object provided the Administrator in Section 402(d) of the Act; and
- (4) Any discharge from a point source which is in conflict with a plan or amendment thereto approved pursuant to section 208(b) of the Act, or any other discharge not permitted by this article, article 17 of the ECL, other rules and regulations adopted or applicable pursuant thereto, the Act, or the provisions of a SPDES permit.

EXCLUSIONS

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

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

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

MODIFICATION; SUSPENSION, REVOCATION

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

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

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

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

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

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

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

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

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

(iv) the classification of such waters, or

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

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

REPORTING NONCOMPLIANCE

a. If for any reason the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit or should any unusual or extraordinary discharge of wastes occur for the permitted facilities, the permittee shall immediately notify the Department of Environmental Conservation

Regional Office by telephone and provide the following information in writing with five days of such notification:

- (1) Cause of noncompliance;
- (2) A description of the noncomplying discharge including its impact upon the receiving waters;
- (3) Anticipated time the condition of noncompliance is expected to continue, or if such condition has been corrected, the duration of the period of noncompliance;
- (4) Steps taken by the permittee to reduce and eliminate the noncomplying discharge; and
- (5) Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance.

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

c. Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as equipment breakdown, electric power failure, accident, or natural disaster.

INSPECTIONS

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

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

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

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

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

TRANSFER OF OWNERSHIP

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

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

PERMIT RENEWAL

The permittee shall file for renewal of this permit no later than 180 days prior to the expiration date by submitting any forms, fees, or supplemental information which may be required by the Department.

SPECIAL PROVISIONS - PROPOSED OR EXPANDED FACILITIES

a. No construction of the waste disposal facilities shall commence without written approval of the Department or its designated field office.

b. The facilities shall be fully constructed and completed in compliance with the engineering report, plans and specifications as approved, and any additional standards which are consistent with the State Law and Code, as specified in writing (letter of approval) by the Department or its designated field office.

c. The construction of the facilities shall be under the supervision of a person or firm qualified to practice professional engineering in the State of New York under the Education Law of the State of New York, whenever engineering services are required by such law for such purposes.

d. Before operation commences, where such facilities are under the supervision of a professional engineer, he shall certify to the Department and to the permittee that the constructed facilities have been fully completed in accordance with the approved engineering report, plans and specifications, permit and letter of approval.

LIMITATION OF DISCHARGES OF OIL AND HAZARDOUS SUBSTANCES IN HARMFUL QUANTITIES

The permittee shall not discharge oil into or upon navigable waters or adjoining shorelines in quantities defined as harmful in regulations published at 40 CFR 110, including any amendments or revisions to such regulations effected subsequent to the date of this permit. In addition, the permittee shall not discharge hazardous substances into or upon navigable waters or adjoining shorelines in quantities defined as harmful in regulations promulgated by the Administrator pursuant to Section 311(b)(4) of the Federal Water Pollution Control Act, as amended. Nothing in this permit shall be deemed to preclude the institution of any legal action nor relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Federal Water Pollution Control Act, as amended, or under any other Federal or State law or regulation.

MONITORING RECORDING AND REPORTING

1. General

- a. The permittee shall comply with all recording, reporting, monitoring and sampling requirements herein and such other additional terms, provisions, requirements or conditions that the Department may deem to be reasonably necessary to achieve the purposes of the Environmental Conservation Law, Article 17, the Act, or rules and regulations adopted pursuant thereto.
- b. Samples and measurements taken to meet the monitoring requirements specified herein shall be representative of the volume and nature of the monitored discharge. All composite samples should be "flow-proportioned" over the entire sampling period.
- c. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation to insure accuracy of measurements.

2. Monitoring Locations

- a. Permittee shall take samples and measurements to meet the monitoring requirements at the locations specified.
- b. Unless specified otherwise, samples of the effluent shall be taken at the point of combined flow into the outfall sewer.
- c. Unless specified otherwise, samples of the influent wastewater shall be taken at the point of plant inflow.

3. Recording of Monitoring Activities and Results

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

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

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

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

4. Analytical Methods

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

1. Standard Methods for the Examination of Water and Wastewaters, 14th Edition, 1976, American Public Health Association, New York, New York 10019.
2. A. S. T. M. Standards, Part 23, Water; Atmospheric Analysis, 1972, American Society for Testing and Materials, Philadelphia, Pennsylvania 19103.

3. Methods for Chemical Analysis of Water and Wastes,
April 1971, Environmental Protection Agency Water Quality
Office, Analytical Quality Control Laboratory, NECR,
Cincinnati, Ohio 45268.

5. Application for Alternate Test Procedures

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

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

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

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

(3) Provide justification for using testing procedures other than those specified in Table I, FEDERAL REGISTER, 28759, Vol. 38. No. 199, Tues. Oct. 16, 1973.

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

6. Confidential Information

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

FACILITY OPERATION AND QUALITY CONTROL

1. General

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

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

c. Maintenance of treatment facilities that results in degradation of effluent quality shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by the New York State Department of Environmental Conservation.

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

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

f. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system:

- (1) Wastes which create a fire or explosion hazard in the treatment works.
- (2) Wastes which will cause corrosive structural damage to treatment works, but in no case wastes with a pH lower than 5.0, unless the works is designed to accomodate such wastes.

- (3) Solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment works.
- (4) Wastewaters at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so as to cause a loss of treatment efficiency.

2. Prohibition of Bypass of Treatment Facilities

The diversion or bypass of any discharge from facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or ~~severe~~ property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the terms and conditions of this permit. The permittee shall immediately notify the Department of Environmental Conservation Regional Office of each such diversion or bypass in accordance with the procedure specified herein for reporting noncompliance. The permittee shall within 30 days after such incident submit to the Department for approval a plan to prevent recurrence of such incidents.

3. Special Condition - Facilities With Septic Tanks

If a septic tank is installed as part of the treatment system, it shall be inspected by the permittee or his agent for scum and sludge accumulation at intervals not to exceed one year's duration, and such accumulation will be removed before the depth of either exceeds one-fourth ($\frac{1}{4}$) of the liquid depth so that no settleable solids or scum will leave in the septic tank effluent. Such accumulation shall be disposed of in an approved manner.

4. Disposal of Collected Solids

a. Intake water treatment. Solids, sludges, dirt, sand, silt, or other pollutants separated from or resulting from treatment of intake or supply water prior to use by the permittee shall be disposed of in such a manner as to prevent any pollutant from such materials from entering classified waters. Any live fish, shellfish, or other animals collected or trapped as a result of intake water screening or treatment may be returned to their water body habitat.

b. Wastewater treatment. Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in such a manner as to prevent any pollutant from such materials entering classified waters.

SPECIAL CONDITIONS - PUBLICLY OWNED TREATMENT WORKS

1. Notice shall be given the Department of Environmental Conservation of any new introduction of pollutants into such treatment works from a source which would be a new source as defined in section 306 of the Act if such source was discharging pollutants; and, except as to such categories and classes of sources specified by the Commissioner, any new introduction of pollutants which exceed 10,000 gallons on any one day into such treatment works from a source which would be subject to Section 301 of the Act if such source was discharging pollutants; and any substantial change in volume or character of pollutants being introduced into such treatment works at the time of issuance of the permit. Such notice shall include information on the quality and quantity of effluent to be introduced into such treatment works; and an anticipated impact of such change in the quantity or quality of effluent to be discharged from such publicly owned treatment works.
2. The permittee shall require any industrial user of such treatment works to comply with the requirements of Section 204(b), 307, and 308 of the Act. Any industrial user subject to the requirements of Section 307 of the Act shall be required by the permittee to prepare and transmit to the New York State Department of Environmental Conservation periodic notice (over intervals not to exceed 9 months) of progress toward full compliance with Section 307 requirements. The permittee, upon receipt of such reports shall transmit a copy promptly to the Department.
3. The permittee shall require any industrial user of storm sewers to comply with the requirement of Section 308 of the Act.
4. For discharges from publicly owned treatment works, appropriate measures will be established by the permittee to insure compliance by industrial users with any system of user charges and recovery of construction costs required under the provisions of the Act.
5. Persons discharging industrial waste to a publicly owned treatment works shall comply with toxic effluent standards and pretreatment standards and with monitoring, reporting, recording, sampling and entry requirements provided by the Act or the Environmental Conservation Law, Article 17 or adopted pursuant to the Act or the Environmental Conservation Law, Article 17.

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

GENERAL CONDITIONS
(PART II)

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PART II - GENERAL CONDITIONS

1. GENERAL PROVISIONS

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

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

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

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

e. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Environmental Conservation Law and the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

f. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

g. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

h. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until the facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced or lost.

i. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

j. The Clean Water Act provides that any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$100,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both.

k. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

l. The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

2. SPECIAL REPORTING REQUIREMENTS FOR EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL DISCHARGERS

a. All existing manufacturing, commercial, mining and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:

1. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels";

(1) One hundred micrograms per liter (100 µg/l);

- (ii) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4 dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
- (iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.53(d)(7) (effluent characteristics) or 40 CFR 122.53(d)(10) (potential discharges); or
- (iv) The level established by the Department in accordance with 40 CFR 122.62(f) (new notification level).

2. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application under 40 CFR 122.53(d)(9) (used or manufactured toxics).

3. EXCLUSIONS

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

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

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

d. Oil and hazardous substance liability. The imposition of responsibilities upon, or the institution of any legal action against the permittee under Section 311 of the Clean Water Act shall be in conformance with regulations promulgated pursuant to Section 311 governing the applicability of Section 311 of the Clean Water Act to discharges from facilities with NPDES permits.

4. MODIFICATION, SUSPENSION, REVOCATION

a. If the permittee fails or refuses to comply with any requirement in an NPDES permit, such noncompliance shall constitute a violation of the permit for which the Commissioner may modify, suspend, or revoke the permit or take direct enforcement action pursuant to law. When, at any time during or prior to a period for compliance, the permittee announces or otherwise lets it be known, or the Commissioner on reasonable cause determines, that the permittee will not make the requisite efforts to achieve compliance with an interim or final requirement, the Commissioner may modify, suspend or revoke the permit and take direct enforcement action pursuant to law, without waiting for expiration of the period for compliance with such requirements.

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

- 1. Violation of any provision of this permit; or;
- 2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts at any time; or materially false or inaccurate statements or information in the application or the permit; or;
- 3. A change in any physical circumstances, requirements or criteria applicable to discharges that requires either a temporary or permanent reduction or elimination of the permitted discharges, such as:
 - (i) standards for construction or operation of the discharging facility,
 - (ii) the characteristics of the waters into which such discharge is made,
 - (iii) the water quality criteria applicable to such waters,
 - (iv) the classification of such waters, or
 - (v) effluent limitations or other requirements applicable pursuant to the Act or State Law.

4. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification, revocation and reissuance, or suspension.

c. If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of the Clean Water Act for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in the permit, the Department shall institute proceedings to modify or revoke and reissue the permit to conform to the toxic effluent standard or prohibition.

REPORTING NONCOMPLIANCE

- a. Anticipated noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- b. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- c. 1. The following shall be included as information which must be reported within 24 hours under paragraph (b.) above:
 - (i) Any unanticipated bypass which violates any effluent limitation in the permit;
 - (ii) Any upset which violates any effluent limitation in the permit;
 - (iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.
2. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- d. Other noncompliance. The permittee shall report all instances of noncompliance not otherwise required to be reported under this section or other sections of this permit, when its Discharge Monitoring Reports are submitted. Such reports shall contain the information listed in paragraph (b.) above.
- e. Duty to mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

6. INSPECTION AND ENTRY

The permittee shall allow the Commissioner of the Department, the EPA Regional Administrator, or their authorized representatives, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or Environmental Conservation Law, any substances or parameters at any location.

7. TRANSFER OF PERMIT

- a. This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act or Environmental Conservation Law.
- b. Transfers by modification. Except as provided in paragraph (c.) of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
- c. Automatic transfers. As an alternative to transfers under paragraph (b.) of this section, any SPDES permit may be automatically transferred to a new permittee if:
 1. The current permittee notifies the Department at least 30 days in advance of the proposed transfer date in paragraph (c.)(2.) of this section;
 2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 3. The Department does not notify the existing permittee and the proposed new permittee of his or her intent to modify or revoke and reissue the permit. A modification under this subparagraph may also be a minor modification. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph (c.)(2.) of this section.

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

e. The Department may require the new permittee to submit a new application.

8. PERMIT RENEWAL

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

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

9. SPECIAL PROVISIONS - NEW OR MODIFIED DISPOSAL SYSTEMS

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

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

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

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

10. MONITORING RECORDING AND REPORTING

10.1 GENERAL

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

b. Samples and measurements taken to meet the monitoring requirements specified in this permit shall be representative of the volume and nature of the monitored discharge(s). As specified in this permit, composite samples means a flow proportioned sample that is composed of at least 8 aliquots collected at a constant volume or flow interval over the specified compositing period. Grab sample means a single aliquot taken over a period not exceeding 15 minutes.

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

d. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, shall upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation or by both.

10.2 SIGNATORIES AND CERTIFICATION

a. All reports required by this permit shall be signed as follows:

1. For a corporation: by a principal executive officer of at least the level of vice-president; or
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official; or by
4. A duly authorized representative of the person described in items (1.), (2.), or (3.). A person is a duly authorized representative only if:

- (i) The authorization is made in writing by a person described in paragraph (a.)(1.), (2.), or (3.) of this section;
- (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
- (iii) The written authorization is submitted to the Department.

b. Changes to authorization: If an authorization under subparagraph (a.)(4.) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of subparagraph (a.)(4.) of this section must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

c. Certification: Any person signing a report shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment".

d. The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

10.3 RECORDING OF MONITORING ACTIVITIES AND RESULTS

a. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

b. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The individual(s) who performed the sampling or measurements;
3. The date(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

10.4 APPLICATION FOR ALTERNATE TEST PROCEDURES

a. The applicant shall submit its application to the Bureau of Monitoring and Assessment, Division of Water, New York State Department of Environmental Conservation, 50 Wolf Road, Albany, New York 12233.

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

1. Provide the name and address of the responsible person or firm making the discharge (if not the applicant) and the applicable ID number of the existing or pending permit, issuing agency, and type of permit for which the alternate test procedure is requested, and the discharge serial number.
2. Identify the pollutant or parameter for which approval of an alternate testing procedure is being requested.
3. Provide justification for using testing procedures other than those specified in Table I of Part 136 of Title 40 of the Code of Federal Regulations, or as amended.
4. Provide a detailed description of the proposed alternate test procedure, together with references to published studies of the applicability of the alternate test procedure to the effluents in question.

11. DISPOSAL SYSTEM OPERATION AND QUALITY CONTROL

11.1 GENERAL

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

b. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

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

d. The permittee shall not discharge floating solids or visible foam.

11.2 BYPASS

a. Definitions:

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

2. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations:

The permittee may allow any bypass to occur which does not cause effluent limitations to be violated, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (c.) and (d.) of this section.

c. Notice:

1. Anticipated bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass.

2. Unanticipated bypass - The permittee shall submit notice of an unanticipated bypass as required in Section 5, paragraph c. of this Part (24 hour notice).

d. Prohibition of bypass:

1. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:

(i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(iii) The permittee submitted notices as required under paragraph (c.) of this section.

2. The Department may approve an anticipated bypass, after anticipating its adverse effects, if the Department determines that it shall:

(i) Meet the conditions listed above in paragraph (d.)(1.) of this section;

(ii) Be scheduled during non-critical water quality periods; and

(iii) Be carried out in a manner approved by the Department.

11.3 UPSET

a. Definition:

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset:

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (c.) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset:

A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An upset occurred and that the permittee can identify the specific cause(s) of the upset;
2. The permitted facility was at the time being properly operated; and
3. The permittee submitted notice of the upset as required in Section 5, paragraph c. of this part (24 hour notice).
4. The permittee complied with any remedial measures required under Section 5, paragraph e. of this part.

d. Burden of proof:

In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

11.4 SPECIAL CONDITION - DISPOSAL SYSTEMS WITH SEPTIC TANKS

If a septic tank is installed as part of the disposal system, it shall be inspected by the permittee or his agent for scum and sludge accumulation at intervals not to exceed one year's duration, and such accumulation will be removed before the depth of either exceeds one-fourth ($\frac{1}{4}$) of the liquid depth so that no settleable solids or scum will leave in the septic tank effluent. Such accumulation shall be disposed of in an approved manner.

11.5 SLUDGE DISPOSAL

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

1. The sources of the materials to be disposed of;
2. The approximate volumes and weights;
3. The method by which they were removed and transported;
4. Their final disposal locations.

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

12.1 GENERAL

a. All POTWs must provide adequate notice to the Department of the following:

1. Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

3. For purposes of this paragraph, adequate notice shall include information on:

- (1) the quality and quantity of effluent introduced into the POTW; and
- (11) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

12.2 NATIONAL PRETREATMENT STANDARDS: PROHIBITED DISCHARGES

(Note: The following Section was published in the Federal Register, Vol. 46, No. 18 - Wednesday January 28, 1981. The effective date of the regulation (Part 403) was March 30, 1981)

§403.5 National Pretreatment Standards: Prohibited Discharges.

a. General prohibitions:

Pollutants introduced into POTW's by an non-domestic source shall not Pass Through the POTW or Interfer with the operation or performance of the works. These general prohibitions and the specific prohibitions in paragraph (b) of this section apply to all non-domestic sources introducing pollutants into a POTW whether or not the source is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

b. Specific prohibitions:

In addition, the following pollutants shall not be introduced into a POTW:

1. Pollutants which create a fire or explosion hazard in the POTW;
2. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0 unless the works is specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference;
4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
5. Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW approves alternate temperature limits.

c. When Specific Limits Must be Developed by POTW:

1. POTW's developing POTW Pretreatment Programs pursuant to § 403.8 shall develop and enforce specific limits to implement the prohibitions listed in § 403.5(a) and (b).
2. All other POTW's shall, in cases where pollutants contributed by User(s) result in interference or Pass-Through, and such violation is likely to recur, develop and enforce specific effluent limits for Industrial User(s), and all other users, as appropriate, which, together with appropriate changes in the POTW Treatment Plant's Facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit or sludge use or disposal practices.
3. Specific effluent limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond.

d. Local Limits:

Where specific prohibitions or limits on pollutants or pollutant parameters are developed by a POTW in accordance with paragraph (c.) above, such limits shall be deemed Pretreatment Standards for the purposes of section 307(d) of the Act.

e. EPA and State Enforcement Actions:

If, within 30 days after notice of an Interference or Pass Through violation has been sent to EPA or the NPDES State to the POTW, and to persons or groups who have requested such notice, the POTW fails to commence appropriate enforcement action to correct the violation, EPA or the NPDES State may take appropriate enforcement action.

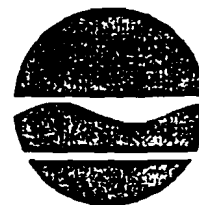
f. Compliance Deadlines:

Compliance with the provisions of this section is required beginning on March 13, 1981, except for paragraph (b.) (5) of this section which must be complied with by August 25, 1981.

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233

November 19, 1975



Ogden Reid,
Commissioner

Fairchild Republic Company
Conklin Street
Farmingdale, New York 11735

Attention: Mr. Anthony J. Fischer, Jr., Asst. Secretary

L.W.
Please review & return
Bus Reviewed
12/12/75

Re: Application for Permit to
Discharge Under New York
State Pollutant Discharge
Elimination System
Application No. NY0089621
Babylon (X)(T)(X)
Suffolk County

Dear Sir:

Enclosed is a "Notice of Application" which you are to have published in its entirety for one day during the week(s) of December 1-5 and December 8-12, 1975, in the Post, Farmingdale, New York.

Please publish on the same day in each week, if more than one week is specified.

Read over the enclosed "Notice of Application" carefully before submitting it to the newspaper for publication, and contact this office immediately if there are any errors.

Please request the newspaper publisher to provide you with a "proof of publication" for this notice. Upon receipt of the "proof of publication" promptly forward it to this office (Room 201, 50 Wolf Road, Albany, New York) for filing with your application. You are to pay for the cost of the publication directly to the newspaper.

Please be advised that any delay or failure to comply with requirements for publication may result in the delay in the processing or granting of your New York State Pollutant Discharge Elimination System permit.

If you have any questions, please call Mr. Man Szeto at Area Code 518, 457-4125, 457-4126.

Very truly yours,

George K. Hansen, P.E.
Chief, PDES Permit Section
Division of Pure Waters

Enclosure

cc: OEA
SPDES File
Region # 1
Reference #47-0775
Suffolk Co. DEC

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTICE OF APPLICATION FOR PERMIT TO DISCHARGE UNDER
PROVISIONS OF NEW YORK STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM
APPLICATION NO. NY- 0089621 (GWI)
Fairchild Republic Company
Babylon (T), Suffolk Co.

Notice is hereby given that, pursuant to Titles 7 & 8 of Article 17 of the Environmental Conservation Law of New York State for the administration of and the issuance of permits under said Law,

Fairchild Republic Company
Conklin St.
Farmingdale, New York

has filed a permit application with the New York State Department of Environmental Conservation at its office at 50 Wolf Road, Albany, New York 12233, where the application and related documents are available for public inspection. The applicant discharges 288,000 gallons per day of industrial wastes and more than 50,000 gallons per day of cooling water into groundwaters from a recharge sump at the applicant's facility located at Conklin St., Farmingdale, N.Y., Babylon (T), Suffolk Co., where the applicant operate a sheet metal fabrication facility.

The New York State Department of Environmental Conservation tentatively intends to issue a State Pollutant Discharge Elimination System (SPDES) permit for the subject discharge(s). A final issuance will follow; (1) review of the application to assure compliance with all applicable provisions of Article 17 of the Environmental Conservation Law of New York State and all applicable provisions of the Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500); (2) development of special conditions setting forth specific effluent limitations and other controls applicable to the discharge(s) described above including schedules of compliance; (3) development of monitoring and reporting requirements for the applicants performance; (4) consideration of all written comments from persons who qualify, as described below, as interested parties on this notice of application.

Any person interested in this application who wishes to comment thereon or become an interested party in any proceeding regarding this application must notify the undersigned in writing stating specific areas of interest on or before January 5, 1976.

All such written comments will be retained by the Department and considered in the formulation of the final determination. Any such interested party will be eligible to be heard if a public hearing is ultimately held in connection with this application.

Further information may be obtained from the New York State Department of Environmental Conservation, Division of Pure Waters, Room 201, 50 Wolf Road, Albany, New York 12233, (A.C. 518, 457-4125, 457-4126).

George K. Hansen
George K. Hansen, P.E.
Chief, P.D.E.S. Permit Section
Division of Pure Waters

Initial Effluent Limitations

During the period beginning on the effective date of this permit and lasting until 10 mo from EDP, discharges from outfalls 001, 002, 003 shall be limited and monitored by the permittee as specified below:

(Give Date) (Specify Outfall Numbers)

(a) The following shall be limited and monitored by the permittee as specified:

Outfall Number	Effluent Characteristic	Discharge Limitation in kg/day (lbs./day)		Other Limitations (Specify Units)		Monitoring Requirements	
		Daily Average	Daily Maximum	Average	Maximum	Measurement Frequency	Sample Type
001*	Flow			200 gpm		daily	continuu.
l. waste	Cr ⁺⁶			0.1 mg/1		weekly	grab
atment	Cr-Total			2.0 mg/1		weekly	grab
nt efflu-	Fluoride			3.0 mg/1		weekly	grab
& misc.	Zn			0.6 mg/1		weekly	grab
reated							
discharge.							
Sanitary Waste - To Fairchild Republic Sewage Treatment Plant. SPDES Permit No. NY-007 4276.							
003	<u>Storm Drainage System</u> - Discharge to recharge sump on west side of Rte. 110.						

* NOTE: Presently all 001 is goint to 003 - Present capacity of recharge sump is being exceeded partly due to continuous discharge from 001.

For the purposes of this subsection, the daily average discharge is the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating.

For the purposes of this subsection, the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than 6.5 nor greater than 8.5.
The pH shall be monitored as follows: 2/ daily using a properly calibrated pH meter

Permittee also subject to attached schedule "A".

Schedule of Compliance for Effluent Limitations

(a) Permittee shall achieve compliance with the effluent limitations specified above for discharges from outfalls 001, 002, 003

(Specify Outfall Numbers)

in accordance with the following schedule:

- | | |
|--|--------------------------|
| 1. Submit Approvable Engineering Report by: | <u>2 mo. from EDP</u> |
| 2. Submit Approvable Final Plans by | : <u>5 mo. from EDP</u> |
| 3. Award of Contract or other Commitment of Financing by | : _____ |
| 4. Commencement of Construction by | : <u>12 mo. from EDP</u> |
| 5. Report of Construction Progress | : _____ |
| 6. Report of Construction Progress | : _____ |
| 7. Report of Construction Progress | : _____ |
| 8. Completion of Construction by | : <u>18 mo. from EDP</u> |
| 9. Attainment of Operational Level by | : <u>19 mo. from EDP</u> |

(b) The permittee shall submit to the Department of Environmental Conservation the required document (s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

** Any waste not compatible with the sewage treatment plant or industrial waste treatment plant that is discharged to either above ground or in-ground holding tanks or containers such as waste conc. acids, waste oil, waste conc. caustic waste fuel, waste solvents and industrial waste treatment plant sludge, but limited specifically to these, must be removed from site by an approved industrial waste scavenger to a site outside Suffolk Co. No discharge of these wastes will be allowed into surface or ground waters. Overflow or spillage on the surface of the ground will not be allowed. Waste removal records must be maintained for review by appropriate personnel.

Final Effluent Limitations

During the period beginning 10 mo. from EDP and lasting
 (Give Date)
 until the date of expiration of this permit, discharges from outfalls 001, 002, 003
 (Specify Outfall Numbers)
 shall be limited and monitored by the permittee as specified below:

(a) The following shall be limited and monitored by the permittee as specified:

Outfall Number	Effluent Characteristic	Discharge Limitation		Other Limitations		Monitoring Requirements	
		Daily Average	Daily Maximum	Average	Maximum	Measurement Frequency	Sample Type
001 *	Effluent from Industrial waste treatment plant						
(see below)	Flow			200 gpm		daily	continuous
	Cr ⁺⁶			0.1 mg/l		monthly	1 week
	Cr-Total			2.0 mg/l		"	composite
	Fluoride			3.0 mg/l		"	"
	Zn			0.6 mg/l		"	"
	Ag			0.1 mg/l		"	"
	Total N			10.0mg/l		quarterly	"
	Vanadium			monitor		"	"
	Titanium					"	"
	** see page 4						

002 Sanitary Waste - For sanitary waste and compatible industrial wastes as outlined in engineering report. (Including the treated effluent from industrial wastes 001)

003 Storm Water Only - For disposal of storm water from the immediate property of Fairchild - Republic Co. Any other sources to be disconnected, to help prevent recharge sump overflow. All improper industrial connections to be sealed.

* Since the Fairchild Republic Sewage Treatment Plant has adequate reserve disposal facilities presently idle, the engineering consultant recommends that the pre-treated industrial wastewater be tied into the sanitary sewage collection system, until the facilities of the Suffolk County South west District are available this will eliminate the overloading of the storm water recharge sump 88

For the purposes of this subsection, the daily average discharge is the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating.

For the purposes of this subsection, the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than 6.5 nor greater than 8.5.
 The pH shall be monitored as follows: 2/daily using a properly calibrated pH meter

Permittee also subject to attached schedule "A".

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location indicated below: (Show locations of outfalls with U.T.M. Coordinates and sketch or flow diagram as appropriate).

This permit and the authorization to discharge shall expire on midnight
5 years from EDP . Permittee shall not discharge after the above
(Give Date)

date of expiration. In order to receive authorization to discharge beyond the above
date of expiration, the permittee shall submit such information, forms, and fees
as are required by the Department of Environmental Conservation no later than
180 days prior to the above date of expiration.

By Authority of _____
Designated Representative of Commissioner of the
Department of Environmental Conservation

Date

Signature

BETHPAGE STATE PARK
(FIVE GOLF COURSES)

NASSAU CO
SUFFOLK CO

LOWER
MELVILLE

FARMINGDALE

REPUBLIC

PINELAWN

22

MAYWOOD

REPUBLIC AVIATION CORP

ST CHARLES CEMETERY
ROMAN CATHOLIC

BRESLAU GARDENS

22

NEW MONTEPESSE CEMETERY

GREAT NECK GARDENS

HOMEWOOD FARMS

N. AMITYVILLE

LEWIS AIRPORT

5

N. LINDENHURST

HOLLYWOOD GARDENS

MASSAPEQUA

PARK

23

B
A
B

Hagstrom Co

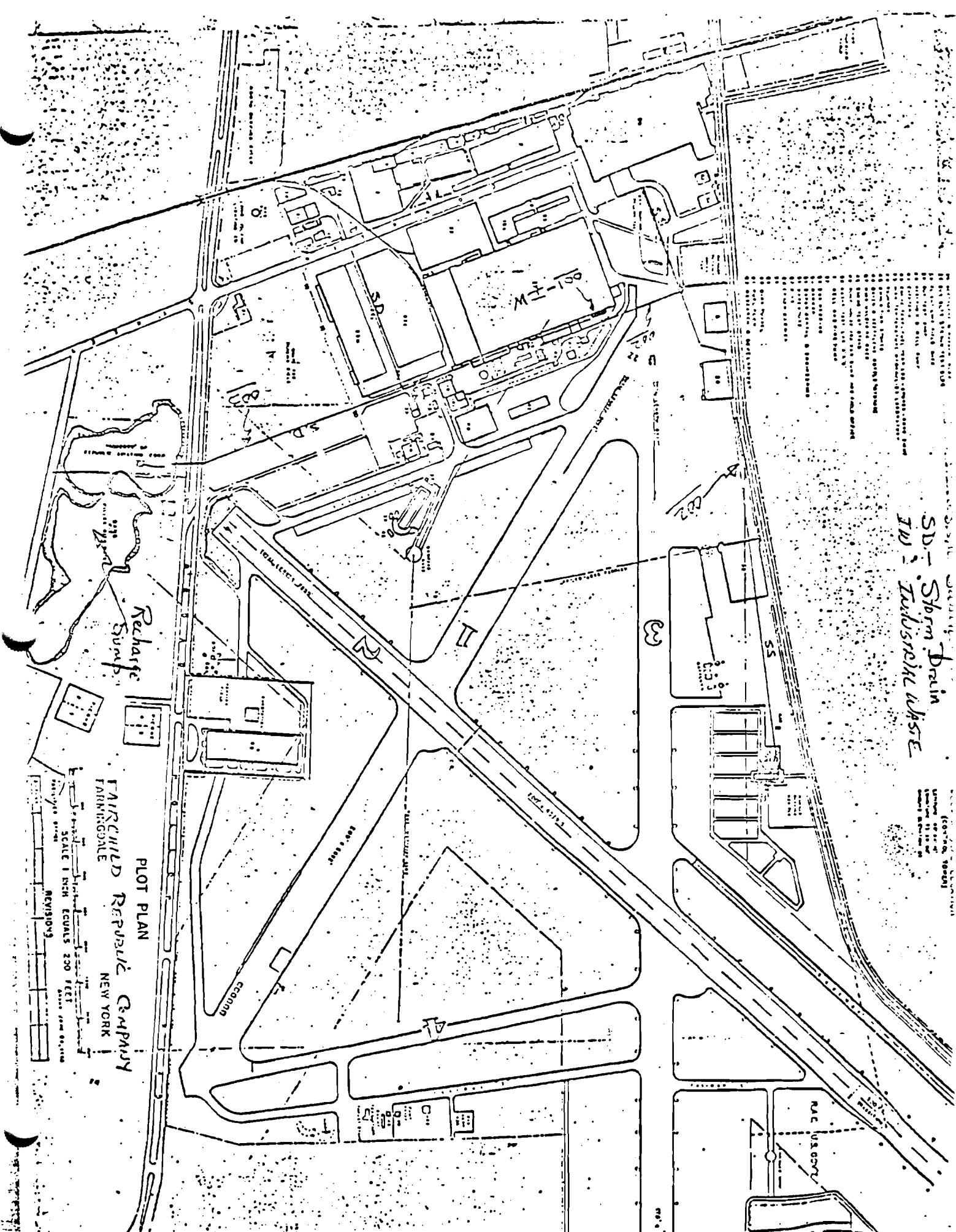
1

2

3

FOR ADJOINING AREA SEE HAGSTROM'S NASSAU COUNTY ATLAS

FOR ADJOINING AREA SEE MAP NO. 5, PAGE 30

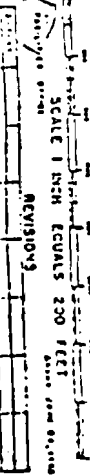


SD - Storm Drain
 IW - Industrial Waste

(CONT. SHEET)
 DRAWING NO. 100
 SHEET NO. 100

PLOT PLAN
 FAIRCHILD REPUBLIC COMPANY
 FARMINGDALE
 NEW YORK

SCALE 1 INCH EQUALS 200 FEET



- 1. TO SHOW THE LOCATION OF THE STORM DRAIN SYSTEM
- 2. TO SHOW THE LOCATION OF THE INDUSTRIAL WASTE SYSTEM
- 3. TO SHOW THE LOCATION OF THE WATER MAIN SYSTEM
- 4. TO SHOW THE LOCATION OF THE GAS MAIN SYSTEM
- 5. TO SHOW THE LOCATION OF THE SEWER MAIN SYSTEM
- 6. TO SHOW THE LOCATION OF THE TELEPHONE MAIN SYSTEM
- 7. TO SHOW THE LOCATION OF THE CABLE MAIN SYSTEM
- 8. TO SHOW THE LOCATION OF THE FIRE ALARM MAIN SYSTEM
- 9. TO SHOW THE LOCATION OF THE LIGHTING MAIN SYSTEM
- 10. TO SHOW THE LOCATION OF THE POWER MAIN SYSTEM
- 11. TO SHOW THE LOCATION OF THE AIR CONDITIONING MAIN SYSTEM
- 12. TO SHOW THE LOCATION OF THE HEATING MAIN SYSTEM
- 13. TO SHOW THE LOCATION OF THE COOLING MAIN SYSTEM
- 14. TO SHOW THE LOCATION OF THE PNEUMATIC MAIN SYSTEM
- 15. TO SHOW THE LOCATION OF THE VACUUM MAIN SYSTEM
- 16. TO SHOW THE LOCATION OF THE STEAM MAIN SYSTEM
- 17. TO SHOW THE LOCATION OF THE CONDENSATE MAIN SYSTEM
- 18. TO SHOW THE LOCATION OF THE CHILLED WATER MAIN SYSTEM
- 19. TO SHOW THE LOCATION OF THE HEATING WATER MAIN SYSTEM
- 20. TO SHOW THE LOCATION OF THE COOLING WATER MAIN SYSTEM
- 21. TO SHOW THE LOCATION OF THE AIR MAIN SYSTEM
- 22. TO SHOW THE LOCATION OF THE GAS MAIN SYSTEM
- 23. TO SHOW THE LOCATION OF THE WATER MAIN SYSTEM
- 24. TO SHOW THE LOCATION OF THE SEWER MAIN SYSTEM
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- 99. TO SHOW THE LOCATION OF THE WATER MAIN SYSTEM
- 100. TO SHOW THE LOCATION OF THE SEWER MAIN SYSTEM

Application No. : NY 000 9021
Name of Permittee : Fairchild Republic Co.
Effective Date : _____
Expiration Date : _____

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)
DISCHARGE PERMIT

Special Conditions
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P. L. 92-500, October 18, 1972 (33 U.S.C. § 1251 et. seq.) (hereinafter referred to as "the Act").

Fairchild Republic Company
(Full Name of Permittee)

is authorized by _____
(Designated Representative of Commissioner of the
Department of Environmental Conservation)

to discharge from Conklin Street
(Street Address of Discharging Facility)
Farmingdale, NY 11735
(Babylon T) (Suffolk Co.)

to Groundwater - Class GA
(Name of Receiving Waters)

in accordance with the following special and general conditions:

The specific effluent limitations and other pollution controls applicable to the discharge permitted herein are set forth in the special conditions. Also set forth are self-monitoring and reporting requirements. Unless otherwise specified, the permittee shall submit original copies of all reports to the Central Office and the appropriate Regional Office of the Department of Environmental Conservation and the EPA Region II Regional Administrator. Except for data determined to be confidential under Section 17-0805 of the Environmental Conservation Law or Section 308 of the Act, all such reports shall be available for public inspection at the offices of the Department of Environmental Conservation and the Regional Administrator of EPA Region II. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 71-1933 of the Environmental Conservation Law or Section 309 of the Act.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Building 40, State University of New York, Stony Brook, N.Y. 11790

April 22, 1975

Fairchild Republic Company
Conklin Street
Farmingdale, N.Y. 11735

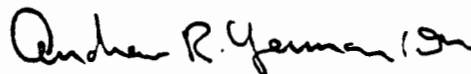
RE: SPDES PERMIT NO. NY0074276
REFERENCE NO. 47-0364

Dear Sir:

Enclosed please find the State Pollutant Discharge Elimination System Permit for the discharge from Industrial at Conklin Street, Farmingdale, N.Y. 11735.

Please carefully read the general and other conditions and the schedule contained in the permit to insure compliance during the term of the permit. This permit, or copy thereof, should be kept available on the premises of the discharging facility at all times.

Sincerely yours,



Andrew R. Yerman, P.E.
Associate Sanitary Engineer

ARY:rja
Enclosures
cc: W. Garvey
A. Machlin
Agency

cc: SPDES File
Region 1 - Ref. #47-0364
Suffolk Co. Dept. Env. Control
Mr. Crandall - BMS
Mr. Stevens - BSP

Application No. : N^o 0074276
Name of Permittee : FAIRCHILD REPUBLIC COMPANY
Effective Date : April 14, 1975
Expiration Date : April 14, 1980

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)
DISCHARGE PERMIT

Special Conditions
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P. L. 92-500, October 18, 1972 (33 U. S. C. § 1251 et. seq.) (hereinafter referred to as "the Act").

FAIRCHILD REPUBLIC COMPANY

(Full Name of Permittee)

is authorized by William L. Garvey, P.E., Director, Bureau of Standards & Compliance
(Designated Representative of Commissioner of the
Department of Environmental Conservation)

to discharge from Fairchild Republic Company

(Street Address of Discharging Facility)
Conklin Street - Farmingdale, New York 11735

Babylon (T), Suffolk County

to Groundwaters

(Name of Receiving Waters)

in accordance with the following special and general conditions:

The specific effluent limitations and other pollution controls applicable to the discharge permitted herein are set forth in the special conditions. Also set forth are self-monitoring and reporting requirements. Unless otherwise specified, the permittee shall submit original copies of all reports to the Central Office and the appropriate Regional Office of the Department of Environmental Conservation and the EPA Region II Regional Administrator. Except for data determined to be confidential under Section 17-0805 of the Environmental Conservation Law or Section 308 of the Act, all such reports shall be available for public inspection at the offices of the Department of Environmental Conservation and the Regional Administrator of EPA Region II. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 71-1933 of the Environmental Conservation Law or Section 309 of the Act.

Initial Effluent Limitations N/A

During the period beginning on the effective date of this permit and lasting until _____, discharges from outfalls _____ shall be limited and monitored by the permittee as specified below:
 (Give Date) (Specify Outfall Numbers)

(a) The following shall be limited and monitored by the permittee as specified:

<u>Outfall Number</u>	<u>Effluent Characteristic</u>	<u>Discharge Limitation in kg/day (lbs./day)</u>		<u>Other Limitations (Specify Units)</u>		<u>Monitoring Requirements</u>	
		<u>Daily Average</u>	<u>Daily Maximum</u>	<u>Average</u>	<u>Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>

For the purposes of this subsection, the daily average discharge is the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating.

For the purposes of this subsection, the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than _____ nor greater than _____.
 The pH shall be monitored as follows: _____

Final Effluent Limitations

During the period beginning effective date of permit and lasting until (Give Date) the date of expiration of this permit, discharges from outfalls 001 shall be limited and monitored by the permittee as specified below: (Specify Outfall Numbers)

(a) The following shall be limited and monitored by the permittee as specified:

<u>Outfall Number</u>	<u>Effluent Limitations</u>		
001	(X) Flow	30 day arithmetic mean	<u>0.5</u> MGD
	(X) BOD ₅	30 day arithmetic mean	<u>30</u> mg/l and <u>125</u> lbs/day*
	(X) BOD ₅	7 day arithmetic mean	<u>45</u> mg/l and <u>187</u> lbs/day*
	() BOD ₅	Daily arithmetic mean	_____ mg/l and _____ lbs/day
	(X) Suspended Solids	30 day arithmetic mean	<u>30</u> mg/l and <u>125</u> lbs/day*
	(X) Suspended Solids	7 day arithmetic mean	<u>45</u> mg/l and <u>187</u> lbs/day*
	() Suspended Solids	Daily arithmetic mean	_____ mg/l and _____ lbs/day
	(X) Fecal Coliform	30 day geometric mean	<u>200</u> /100 ml
	(X) Fecal Coliform	7 day geometric mean	<u>400</u> /100 ml
	() Total Coliform	Daily arithmetic mean	_____ /100 ml
	() TKN	Daily arithmetic mean	_____ mg/l as N
	() Ammonia	Daily arithmetic mean	_____ mg/l as N
	() Dissolved Oxygen	Daily arithmetic mean	greater than _____ mg/l
	(X) pH	Range	<u>6.5</u> to <u>8.5</u>
	(X) Settleable Solids	Daily	less than <u>0.3</u> ml/l
	(X) Chlorine Residual	Daily arithmetic mean	<u>0.5</u> mg/l
	() Phosphorus	Daily arithmetic mean	_____ mg/l as P

*and effluent values shall not exceed 15% of influent values

Monitoring Requirements

<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
(X) Total Flow, MGD	<u>Continuous</u>	<u>N/A</u>
(X) BOD ₅ , mg/l	<u>Monthly</u>	<u>6 hr. composite</u>
(X) Suspended Solids, mg/l	<u>Monthly</u>	<u>6 hr. composite</u>
(X) Fecal Coliform, No./100 ml	<u>Monthly</u>	<u>Grab</u>
() Total Coliform, No./100 ml	_____	_____
() TKN, mg/l as N	_____	_____
() Ammonia, mg/l as N	_____	_____
() Dissolved Oxygen, mg/l	_____	_____
(X) pH	<u>Daily</u>	<u>Grab</u>
(X) Settleable Solids, ml/l	<u>Daily</u>	<u>Grab</u>
(X) Residual Chlorine, mg/l	<u>Daily</u>	<u>Grab</u>
() Phosphorus, mg/l as P	_____	_____
(X) Temperature, °C	<u>Daily</u>	<u>Grab</u>

For the purposes of this subsection, the daily average discharge is the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating.

For the purposes of this subsection, the daily maximum discharge means the total discharge by weight during any calendar day.

Schedule of Compliance for Effluent Limitations

(a) Permittee shall achieve compliance with the effluent limitations specified above for discharges from outfalls _____

(Specify Outfall Numbers)

in accordance with the following schedule:

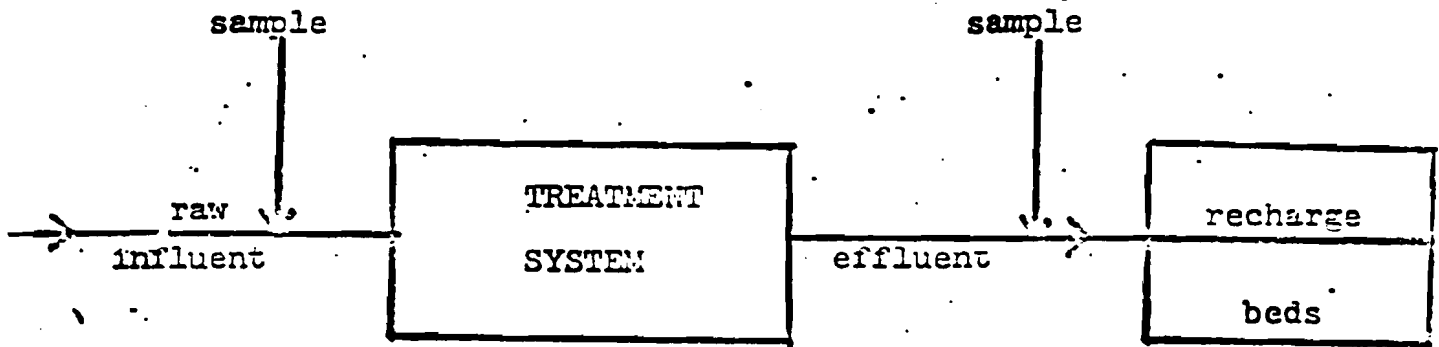
1. Submit Approvable Engineering Report by: _____
2. Submit Approvable Final Plans by : _____
3. Award of Contract or other Commitment of Financing by : _____
4. Commencement of Construction by : _____
5. Report of Construction Progress : _____
6. Report of Construction Progress : _____
7. Report of Construction Progress : _____
8. Completion of Construction by : _____
9. Attainment of Operational Level by : _____

(b) The permittee shall submit to the Department of Environmental Conservation the required document (s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance:
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay:
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate).



Attachments:

General Conditions
Schedule "A"

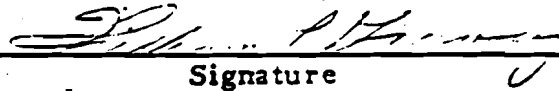
This permit and the authorization to discharge shall expire on midnight
3 years from date of issuance . Permittee shall not discharge after the above
(Give Date)

date of expiration. In order to receive authorization to discharge beyond the above
date of expiration, the permittee shall submit such information, forms, and fees
as are required by the Department of Environmental Conservation no later than
180 days prior to the above date of expiration.

By Authority of William L. Garvey, P.E., Director, Bureau of Standards & Compliance
Designated Representative of Commissioner of the
Department of Environmental Conservation

April 14, 1975

Date



Signature

General Conditions

(Part II)

<u>Item</u>	<u>Page</u>
Legislative Requirements	1-2
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Legislative Requirements

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

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

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

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. A change in conditions or the existence of a condition which requires either a temporary or permanent reduction or elimination of the authorized discharge.

3. Notwithstanding (2) above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in Section 17-0809 of the Environmental Conservation Law or Section 307(a) of the Act for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee shall be so notified.

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

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

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

c. To inspect at reasonable times any monitoring equipment or monitoring method required in this permit; or

d. To sample at reasonable times any discharge of pollutants.

5. The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

6. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

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

8. For publicly owned treatment works, notice shall be given the Department of Environmental Conservation of any new introduction into such works of pollutants or substantial changes in volume or character of pollutants.

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

Reporting of Monitoring Results

(a) Monitoring information required by this permit shall be summarized and reported by submitting a Discharge Monitoring Report form, properly filled in and signed within 28 days after the close of each reporting period, to the Central Office and to the appropriate Regional Office of the Department of Environmental Conservation at the following addresses:

Mr. Russell C. Mt.Pleasant, Chief, Bureau of Monitoring & Surveillance
Room 300
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York ~~XXXX~~ 12233

and

Suffolk Co. Dept. of Environmental Control
1324 Motor Parkway
Hauppauge, New York 11787

and

New York State Department of Environmental Conservation
Regional Office # 1
Bldg. 40 - SUNY
Stony Brook, New York 11794

Blank Discharge Monitoring Report Forms are available at the above addresses.

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

Compilation of Monitoring Data

(a) Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge.

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

1. Standard Methods for the Examination of Water and Wastewaters, 13th Edition, 1971, American Public Health Association, New York, New York 10019.
2. A.S.T.M. Standards, Part 23, Water; Atmospheric Analysis, 1972, American Society for Testing and Materials, Philadelphia, Pennsylvania 19103.
3. Methods for Chemical Analysis of Water and Wastes, April 1971, Environmental Protection Agency Water Quality Office, Analytical Quality Control Laboratory, NECR, Cincinnati, Ohio 45268.

Noncompliance with Effluent Limitations

(a) If for any reason the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall immediately notify the Department of Environmental Conservation Regional Office by telephone and provide the following information in writing within five days of such notification:

1. Cause of noncompliance;
2. A description of the noncomplying discharge including its impact upon the receiving waters;
3. Anticipated time the condition of noncompliance is expected to continue, or if such condition has been corrected, the duration of the period of noncompliance;

SCHEDULE A

By initiating construction of the approved works, the permittee accepts and agrees to abide by and conform with the following:

1. That upon completion of construction, accurate as-built drawings prepared by a New York State Professional Engineer shall be submitted to the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control for permanent records showing all pertinent details of the collection, treatment and disposal system including pipe locations and elevations, all plumbing, electrical and mechanical drawings, general layout, equipment design and hydraulic profiles.
2. That acceptance and approval of the waste disposal facility does not constitute approval of the structural stability by the New York State Department of Environmental Conservation or Suffolk County Department of Environmental Control.
3. That if changes are contemplated to the approved plan, such changes shall be submitted in writing to New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control and receive written approval before being initiated.
4. That a comprehensive operating and testing manual shall be provided to the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control and to the owner to be kept in a satisfactory location at the treatment plant prior to final approval to operate.
5. That a comprehensive equipment maintenance and repair manual shall be provided to the owner prior to final approval to operate.
6. That all equipment warranties shall be properly signed and validated prior to approval to operate.
7. That no industrial wastes, cooling water, or storm drainage shall be allowed to flow to sanitary waste disposal systems.
8. That routine sampling and testing of plant flow shall be performed for the purposes of proper operation control and surveillance in accordance with the permit schedule and that such additional laboratory equipment and testing as may be required by the New York State Department of Environmental Conservation and Suffolk County Department of Environmental Control be supplied and performed.
9. That summary reports of the operation of the treatment works including laboratory tests and measurements of the influent unit effluents and plant effluent and results therefrom shall be submitted to New York State Department of Environmental Conservation and Suffolk County Department of Environmental on forms furnished by or satisfactory to the Departments and that operating records shall be kept at the treatment works.

18. That the removal of sludge or other liquid waste from the plant site shall be accomplished by an approved scavenger to an approved site in a manner and at a time so as to minimize any nuisance created by noise or odor. No spillage or leakage of the ground shall be permitted. Permanent records shall be kept at the plant giving date, time, amount, type and name of scavenger for all waste removed from the plant site.
19. That if a public nuisance situation occurs in the opinion of the permit issuing authority, which is resulting in public complaint due to odor, overflows, spillage or other causes, the owner shall take all feasible action to control the nuisance, and that failure to initiate such action shall be considered as a violation of permit. "Feasible action" includes but is not limited to installation of odor control devices.
20. That if transfer of this permit and its attendant obligations to another permittee is desired, the permittee of record and the assuming permittee shall so petition the New York State Department of Environmental Conservation in writing. Transfer shall become effective on the date prescribed in the written notification of such transfer to be furnished to both the original and the assuming permittees by the New York State Department of Environmental Conservation.
21. That this permit be kept readily available at the treatment facility.

1

2

3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PERMIT

To Operate a Waste Treatment Facility and to Discharge Wastes to the Waters of New York State

Applicant: Fairchild Miller Republic Aviation Division	2. Location of Facility (C, V, T): Babylon (T)	3. County: Suffolk	4. Entry or Service Area: Bldg. No. 29-W
Type of Waste: <input checked="" type="checkbox"/> Sewage <input type="checkbox"/> Industrial Specify _____		<input type="checkbox"/> Other Specify _____	
Type of Facility: Primary		7. Grade of Operator Required: III-B	
Location (C, V, T): Babylon (T)		Major Drainage Basin: Long Island - Atlantic	
Surface water: Class _____		Name of Receiving Water: _____	
Ground water: Class: CA		Name of Receiving Water to which Ground Water is Tributary: Great South Bay	

This permit is issued under the provisions of Article 17 of the Environmental Conservation Law and Part 652 of the Administrative Rules and Regulations contained in Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (5 NYCRR 652) and is subject to the conditions specified in 6 NYCRR 652 and the following conditions:

1. THAT the operation permit shall be suitably framed and prominently displayed at the treatment works.
2. THAT the facilities shall be continuously operated and maintained to the satisfaction of the Commissioner and to comply with the Environmental Conservation Law and all applicable laws, ordinances, codes, rules and regulations.
3. THAT the facilities shall not receive or be committed to receive wastes beyond their design capacity as to volume and character of wastes treated.

THAT the effluent from the works shall have the following limits:

- (a) The volume of discharged wastewater shall not exceed an arithmetic average of 500,000 gallons per day during any month;
- (b) The volume of settleable solids shall not exceed an arithmetic average of 1.0 ml/l after one hour settling during any month;
- (c) The concentration and amount of suspended solids shall not exceed an arithmetic average of 45 mg/l and 108 lbs/day respectively during any month;
- (d) The concentration and amount of biochemical oxygen demand shall not exceed an arithmetic average of 36 mg/l and 150 lbs/day respectively during any month;
- (e) The pH shall be in the range of 6.5 to 8.5;
- (f) The effluent shall be continuously disinfected so that a median coliform value of 750 per 100 ml. is not exceeded with not more than 5% of the samples having a value in excess of 2400 coliforms per 100 ml. When less than 20 samples are collected in any one month, this maximum value shall not be exceeded more than once in 20 consecutive samples;
- (g) The concentration of residual chlorine, during the disinfection period, shall be five-tenths milligram per liter (0.5 mg/l) or greater after a minimum of 15 minutes contact time.

..... as determined by appropriate sampling and standard testing methods.

(OVER)

ISSUED FOR THE NEW YORK STATE COMMISSIONER OF ENVIRONMENTAL CONSERVATION

Donald D. Rollins 1-17-73
Designated Representative Date

1-16-76
Expires

Distribution: White - Applicant Yellow - File (LHO or DHO)
Pink - Central Office

7. THAT the facilities shall not be changed or modified or otherwise altered as to type or degree or capacity of treatment provided, volume or character of wastes treated, disposal of treated effluent, or treatment and disposal of separated gas, liquids, solids or combinations thereof resulting from the treatment process without the prior written approval of the permit issuing official.
8. THAT such additional laboratory equipment and testing, as may be required from time to time by the Commissioner, be supplied and performed.
THAT regular records of the operation of the treatment works including laboratory test and measurements of the influent, unit effluents and plant effluent and records of operation as required by the Environmental Conservation Department shall be submitted monthly on forms furnished by or satisfactory to the Department and that operating records shall be kept at the treatment works.
9. THAT sufficient personnel meeting qualifications for operators of sewage treatment works as required under Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR 650) shall be employed to satisfactorily operate and maintain the treatment facilities.
10. THAT should any unusual situation occur caused by a deviation from normal operation and creating a potentially hazardous condition, the permittee will immediately notify the Regional Engineer for Environmental Quality when such condition begins and when the condition ceases.
11. THAT the permit is revocable or subject to modification or change pursuant to Article 17 of the Environmental Conservation Law.
12. THAT should the operation of and the discharge from this facility permanently cease, this Permit is voided and automatically revoked.
13. THAT the permit shall expire on January 16, 1976.



**NEW YORK STATE DEPARTMENT OF HEALTH
WATER POLLUTION CONTROL BOARD**


Norman E. Hillebee, M.D., Chairman
Commissioner of Health
Albany 1, N.Y.

**PERMIT TO DISCHARGE SEWAGE OR WASTES
INTO THE WATERS OF THE STATE**

Application having been duly made as provided by the Public Health Law, permission is hereby given to Republic Aviation Corporation to discharge waste effluent from the proposed waste treatment works to serve their anodizing, plating and spray painting operations in the Town of Babylon, as shown on the plans approved this day, into the ground waters of the State tributary to Great South Bay at the points on the property indicated on the approved plans

within the TOWN of BABYLON, SUFFOLK COUNTY, NEW YORK
under the following conditions:

- I. THAT this permit shall be revocable at any time or subject to modification or change when in the judgment of the Water Pollution Control Board such revocation, modification or change shall become necessary.
- II. THAT the proposed waste treatment works shown on the plans approved this day shall be fully constructed in complete conformity with such plans or approved amendments thereto.
- III. THAT only the volume and type of wastes covered by the engineers report dated September 1948, and no storm water or surface water from streets, roofs or other areas shall be admitted to the waste treatment works.
- IV. THAT the waste treatment works shall be operated at all times to the satisfaction of the Water Pollution Control Board and that any interruption in operation shall be reported immediately to the said Board.
- V. THAT the sludge shall be disposed of satisfactorily and in a manner which will not contaminate any ground or surface water supplies or injure fish life.
- VI. THAT monthly reports on the operation of the waste treatment works shall be regularly submitted to the Water Pollution Control Board on forms furnished by or satisfactory to said Board.
- VII. THAT whenever required by the Water Pollution Control Board, additional or more adequate works for the collection or disposal of wastes shall be installed and put in operation, plans for which shall first be submitted to and receive the approval of said Board.



Director, Bureau of Environmental Sanitation
and
Acting Executive Secretary

Dated May 31, 1949

STB:OC

NOTE: This permit before being operative shall be filed in the County Clerk's office of SUFFOLK County

March 30, 1943

Alexander Potter Associates
Consulting Engineers
50 Church Street
New York, N.Y.

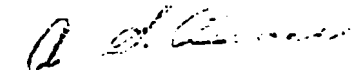
Gentlemen: Attention - Mr. M. H. Klegerman

We are enclosing herewith permit issued this day to the Republic Aviation Corporation to discharge sewage effluent from the existing sewage disposal works serving its factory buildings and those of Ranger-Aircraft Engines at East Farmingdale in the town of Babylon, as modified by the additions and alterations shown on the plans approved this day, into the ground waters of the State tributary to Great South Bay at the points on the property shown on the approved plans within the town of Babylon, Suffolk County, New York.

In order to become operative this permit must first be recorded in the office of the County Clerk of Suffolk County.

The approved plans consisting of two blueprints are enclosed herewith.

Very truly yours



A. S. Redell
Chief, Bureau of Sewage & Waste Disposal

Encl.

Copy to:

Dr. Raffle, D.S.M.O.-New York
Dr. Davis, Suffolk County Health Commissioner

JCB:AL

Permanent Record
To be Discarded 2 years hence
Record & Disposal
Discard after reading

EDWARD S. GODFREY, JR., M. D.
COMMISSIONERPAUL B. BROOKS, M. D.
DEPUTY COMMISSIONERNEW YORK
STATE DEPARTMENT OF HEALTH
ALBANYDIVISION OF SANITATION
CHARLES A. HOLMQUIST, B.
DIRECTOR
EARL DEVENDORF, M. S.
ASSISTANT DIRECTORPERMIT TO DISCHARGE SEWAGE OR WASTES
INTO THE WATERS OF THE STATE

Application having been duly made to the State Commissioner of Health as provided by Article V of the Public Health Law, permission is hereby given to the Republic Aviation Corporation to discharge sewage effluent from the existing sewage disposal works serving its factor buildings and those of Ranger-Aircraft Engines at East Farmingdale in the town of Babylon, as modified by the additions and alterations shown on the plans approved this day, into the ground waters of the state tributary to Great South Bay at the points on the property shown on the approved plans

within the town of BAByLON of SUFFOLK COUNTY, NEW YORK
under the following conditions:

- I. THAT this permit shall be revocable at any time or subject to modification or change when in the judgment of the State Commissioner of Health such revocation, modification or change shall become necessary.
- II. THAT the proposed additions and alterations to the existing sewage disposal works shown on the plans approved this day shall be fully constructed in complete conformity with such plans or approved amendments thereto.
- III. THAT only sanitary or domestic sewage and no storm water or surface water from streets, roofs or other areas shall be admitted to the sewage disposal works.
- IV. THAT the sewage disposal works shall be operated at all times to the satisfaction of the State Commissioner of Health.
- V. THAT whenever required by the State Commissioner of Health, additional or more adequate works for the collection or disposal of sewage shall be installed and put in operation, plans for which shall first be submitted to and receive the approval of the State Department of Health.

Dated March 30, 1943

JCB:MC

.....
Director, Division of Sanitation.NOTE -- This permit before being operative shall be recorded in the County Clerk's Office of Suffolk County

August 15, 1941

Alexander Potter Associates,
Consulting Engineers,
50 Church Street,
New York City, N.Y.

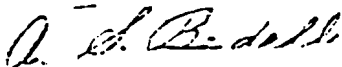
Gentlemen:

We are enclosing herewith a permit issued this day to Republic Aviation Corporation to discharge sewage effluent from the proposed sewers and lift station serving its factory buildings on the north side of Conklin Street in the Town of Babylon as shown on the plans approved this day after treatment in the existing sewage disposal works, plans for which were approved by New York State Department of Health, on January 15, 1941, into the ground waters of the state tributary to the Atlantic Ocean within the Town of Babylon, Suffolk County, New York.

In order to become operative, this permit must first be recorded in the office of the County Clerk of Suffolk County.

We are also enclosing the approved plans consisting of one blueprint.

Very truly yours,



A. S. Sedell, Chief,
Bureau of Sewage & Waste Disposal.

Copy to: Dr. Davis, Suffolk County Health Dept.
Dr. Sargent, D.S.H.O.

AWE:R

August 15, 1941

Dr. A.T. Davis,
Commissioner,
Suffolk County Health Dept.,
Riverhead, New York.


Dear Doctor Davis:

We are enclosing herewith a copy of a permit issued this day to Republic Aviation Corporation to discharge sewage effluent from the proposed sewers and lift station serving its factory buildings on the north side of Conklin Street in the Town of Babylon as shown on the plans approved this day after treatment in the existing sewage disposal works, plans for which were approved by New York State Department of Health, on January 13, 1941, into the ground waters of the state tributary to the Atlantic Ocean within the Town of Babylon, Suffolk County, N.Y.

This copy is intended for filing in the office of the local Board of Health.

The approved plans provide for sewer connections to the existing buildings of the Republic Aviation Corporation, a lift station provided with two sewage ejectors, each having a capacity of 200 gallons per minute with the effluent from the lift station being discharged into sewers tributary to the main sewer leading to the existing sewage disposal works. The population tributary to the sewage disposal works will now total about 9,900; 7,400 tributary from the new buildings and about 2,500 tributary from the old buildings of the Republic Aviation Corporation.

Very truly yours,


A.S. Bedell, Chief,
Bureau of Sewage & Waste Disposal.

Copy to: Dr. Sargent, D.S.H.O.

AVE:R

EDWARD S. GODFREY, JR., M. D.

COMMISSIONER

PAUL B. BROOKS, M. D.

DEPUTY COMMISSIONER

NEW YORK

STATE DEPARTMENT OF HEALTH
ALBANYDIVISION OF SANITATION
CHARLES A. HOLMQUIST, B. S.
DIRECTOR
EARL DEVENDORF, M. S.
ASSOCIATE DIRECTOR

PERMIT TO DISCHARGE SEWAGE OR WASTES INTO THE WATERS OF THE STATE

Application having been duly made to the State Commissioner of Health as provided by Article V of the Public Health Law, permission is hereby given to Republic Aviation Corporation to discharge sewage effluent from the proposed sewers and lift station serving its factory buildings on the north side of Conklin Street in the Town of Babylon as shown on the plans approved this day after treatment in the existing sewer disposal works, plans for which were approved by the New York State Department of Health on January 13, 1941, into the ground waters of the state tributary to the Atlantic Ocean

within the town of BABYLON, SUFFOLK COUNTY, NEW YORK
under the following conditions:

- I. THAT this permit shall be revocable at any time or subject to modification or change when in the judgment of the State Commissioner of Health, such revocation, modification or change shall become necessary.
- II. THAT the proposed sewers and lift station shown on the plans approved this day shall be fully constructed in complete conformity with such plans or approved amendments thereto.
- III. THAT only sanitary or domestic sewage and no storm water or surface water from streets, roofs or other areas shall be admitted to the proposed sewers and lift station.
- IV. THAT the sewers shall be made as watertight as practicable to exclude so far as possible ground water infiltration.
- V. THAT whenever required by the State Commissioner of Health, additional or more adequate works for the collection or disposal of sewage shall be installed and put in operation, plans for which shall first be submitted to and receive the approval of the State Department of Health.

Dated August 15, 1941

Charles A. Holmquist
.....
Director, Division of Sanitation

AWE:R

NOTE -- This permit before being operative shall be recorded in the County Clerk's Office of SUFFOLK County

January 13, 1941.

Alexander Satter Associates,
Consulting Engineers,
50 Church Street,
New York, N. Y.

Gentlemen:

Att: H.H. Hegerman

We are enclosing herewith a permit issued this day to Republic Aviation Corp. to discharge sewage effluent from the proposed sewage disposal works to serve its factory near Farmingdale, in the town of Babylon, as shown on the plans approved this day, into the ground waters of the State tributary to the Atlantic Ocean at the points on the property shown on the approved plans, within the Town of Babylon, Suffolk County, New York.

In order to become operative this permit must first be filed in the office of the county clerk of Suffolk County.

The approved plans consisting of 12 blueprints are being forwarded under separate cover.

You will note on the approved plans that we have made two very minor changes in order to agree with the changes mentioned in your letter of December 18th. On sheet #1 we have shown the outfall sewer to be an 18" rather than an 15" sewer to agree with the detailed plans of this sewer. On sheet #9 we have added a note stating that a flame stop is to be provided on the pilot line to the waste gas burner.

Very truly yours,

AHE:EV

A. S. Edell
Chief, Bureau of Sewage & Waste Disposal.

Encl.

Copy to - Mr. A. T. Davis, Commissioner, Suffolk County Health Dept.
Dr. Marie C. Brown, Commissioner, Nassau County Health Dept.
Dr. C.A. Sargent, Dist. State Health Officer

January 13, 1941.

Dr. A. T. Davis, Commissioner
Suffolk County Department of Health,
Riverhead, N. Y.

Dear Doctor Davis:

We are enclosing herewith copy of a permit issued this day to Republic Aviation Corp. to discharge sewage effluent from the proposed sewage disposal works to serve its factory near Farmingdale, in the town of Babylon, as shown on the plans approved this day, into the ground waters of the State tributary to the Atlantic Ocean at the points on the property shown on the approved plans, within the Town of Babylon, Suffolk County, New York.

This copy is intended for filing in your office.

The approved plans show the proposed sewage disposal works to be composed of the following units:

Bar Screen - 14" clear openings
V Notch Weir
A pump well with three pumps, 300 g.p.m., 600 g.p.m. and 1200 g.p.m.
Settling Tanks
Three units, each provided with mechanical sludge and scum removal equipment.
Total Capacity 73,000 gallons
Detention - 2 hours at average rate of flow
Rising Tank - 5230 cu. ft. Rising tank provided with six 14" siphons and two blank 14" siphons for future use.
Open Sand Filters - six units handling sand, with no underdrains.
Total area - 3.3 acres
Digestion Tanks - 2 heated, floating cover tanks having a total capacity of 17,500 cu. ft.
Tanks provide 224 cu. ft. per capita for the weighted population of 4087.
Sludge Drying Beds - one glass covered bed divided into two units having a total area of 1330 sq. ft. Bed provides 0.41 sq. ft. per capita for the present weighted population of 3333.
Chlorination for odor control.

(over)

The sewage treatment works have been designed for a present population of 10,000 and a future population of 14,000 and a daily per capita sewage flow of 55 gallons, gpd, therefore, the present weighted population is 3333 and the future weighted population is 4667. The average design rate of flow is 600 g.p.d.

Very truly yours,

AWE:EV

A. S. Sedell
Chief, Bureau of Sewage & Waste Disposal.

Encl.

Copy to - Dr. Brown
Dr. Sargent

SPDES VIOLATIONS

COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

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

Fairchild Republic
New Highway
Farmingdale, New York 11735

Date August 28, 1986
SPDES No. 0089621
Lab. No. 7-86-250 & IW-786015
Field No. 1-EJ-7-23

Attention: Mr. G. T. Webb

Gentlemen:

On July 23, 1986 samples of industrial waste were taken from your effluent prior to chlorination. Upon analysis, the following parameters were found in concentrations above the maximum allowed in groundwater discharge standards:

- | | |
|--------------------|---------------------------------|
| 1. Silver .14 mg/l | 6. 1,1,1 Trichloroethane 84 ppb |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

Please be advised that these unsatisfactory conditions constitute violations of the New York State Environmental Conservation Law and/or the Suffolk County Sanitary Code.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to \$500 per violation. Environmental Conservation Law violations are also subject to a civil penalty.

Very truly yours,

Robert Seyfarth
Senior Sanitarian
Environmental Pollution Control

RS/jhn



PETER F. COMALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

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

Falconridge Republic
New Highway
Farmingdale, New York 11735

Date August 26, 1986
SPDES No. 0089621
Lab. No. 7-86-250 & IW-766015
Field No. 1-ES-7-23

Attention: Mr. G. T. Webb

Gentlemen:

On July 23, 1986 samples of industrial waste were taken from your effluent prior to chlorination.

Upon analysis, the following parameters were found in concentrations above the maximum allowed in groundwater discharge standards:

- | | |
|--------------------|---------------------------------|
| 1. Silver .14 mg/l | 6. 1,1,1 Trichloroethane 64 ppb |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

Please be advised that these unsatisfactory conditions constitute violations of the New York State Environmental Conservation Law and/or the Suffolk County Sanitary Code.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to \$500 per violation. Environmental Conservation Law violations are also subject to a civil penalty.

Very truly yours,

Robert Seyfarth
Senior Sanitarian
Environmental Pollution Control

RS/jhm

Farmingville, NY 11735

June 4, 1985

County of Suffolk
Department of Health Services
15 Horseblock Place
Farmingville, NY 11738

Att: Gordon J. Watt

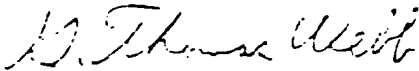
Re: Letter dated 5/8/85
SPDES Effluent Limit Violations

Gentlemen:

As per our phone conversation, attached is a copy of the transmittal letter for the February, 1985 DMR.

If additional information is required, please contact me.

Very truly yours,



G. Thomas Webb
Chief Environmental Engineer

GTW/cg/att.

COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

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

May 8, 1985

Mr. Tom Webb
Fairchile Republic
Conklin Street
Farmingdale, NY 11735

Re: SPDES Effluent Limit Violations

Dear Sir:

Below is a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the data and notify us, in writing, as to the cause of the violation(s) and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Reporting Period		End Date 2/28/85	
Outfall	Parameter	Permit Value	Reported Value
001	pH	6.5-8.5	4.6
001	Aluminum	2.0 ,g/l	70
001	Sulfides	1.0	35

Very truly yours,

Gordon J. Watt
Associate Sanitarian
GJW:he

cc: J. Finkenberg x
J. Gladysz
D. Gobbi
T. Snyder, P.E.
W. Lavery



PETER F. CONALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

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

May 8, 1985

Mr. Tom Webb
Fairchile Republic
Conklin Street
Farmingdale, NY 11735

Re: SPDES Effluent Limit Violations

Dear Sir:

Below is a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the data and notify us, in writing, as to the cause of the violation(s) and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Outfall	Parameter	Reporting Period	End Date	Permit Value	Reported Value
		7-28-85	7-28-85		
001	pH			6.5-8.5	4.6
001	Aluminum			2.0 g/l	70
001	Sulfides			1.0	35

Very truly yours,

Gordon J. Watt

Gordon J. Watt
Associate Sanitarian
CEW:ms

cc: J. Finkenberg
J. Gladysz
E. Geese
E. Snyder, P.E.
W. Lavery

1-3-00000-001 PLACE
PC 1

FARMINGVILLE NEW YORK 11735

516-431-4646

FAIR 20496



Fairchild Republic Company Farmingdale, L.I. New York 11735

January 4, 1985

County of Suffolk
Department of Health Services
15 Horseblock Place
Farmingville, NY 11738

Att: J.H. Finkenberg

Re: Notice of Violation
Dated 27 December, 1984

Gentlemen:

In response to the referenced Notice of Violation, the following information is provided:

The steam cleaning pit is a self contained concrete sump with no drainage connections. It is a hold and haul operation.

At present, the steam cleaning activity is at a minimum, and we are making arrangements to have the pit pumped out and cleaned by an approved hauler. Next spring, when the weather is milder, we will coat the entire pit with a chemical resistant epoxy material.

If additional information is required, please contact me.

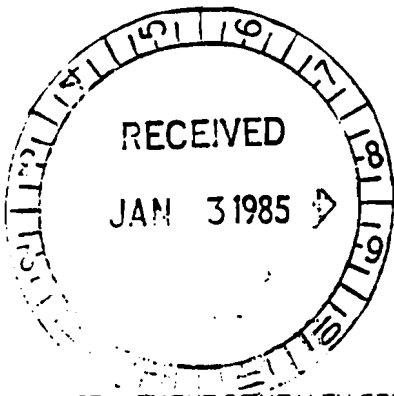
Very truly yours,

A handwritten signature in cursive script that reads "G. Thomas Webb".

G. Thomas Webb
Chief Environmental Engineer

GTW/cg

cc: G. Assmus



NOTICE OF VIOLATION
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Fairchild Republic Corporation
Conklin Street
Farmingdale, New York 11735

Attention: Mr. T. Webb
Gentlemen:

Date December 27, 1984
SPDES NO. _____
Lab. No. 11-84-278
Field No. 3DQ11/29

On November 29, 1984 samples of industrial waste were taken from your liquid inside, "steam cleaning pit." Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- | | |
|----------------------|-----|
| 1. Iron 12.0 mg/l | 6. |
| 2. Lead 0.4 mg/l | 7. |
| 3. Cadmium 0.06 mg/l | 8. |
| 4. | 9. |
| 5. | 10. |

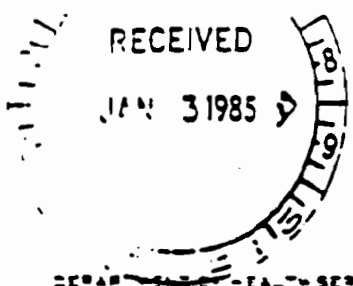
Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first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

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

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

Very truly yours,


John H. Finkenberg, Sr. Sanitarian
Environmental Pollution Control



STATE OF NEW YORK
SUPERIOR COURT

SEAN...-EAL...SERVICS
Fairchild Republic Corporation
Conklin Street
Farmingdale, New York 11735
Attention: Mr. T. Kebb
Geneva:

Date December 27, 1984
SOSIS No. _____
Lab. No. 17-84-285
Field No. 17011/20

On November 29, 1984 samples of industrial waste were taken from your liquid inside, "steam cleaning rig."
Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SOSIS permit or in groundwater effluent standards:

- 1. Iron 12.0 mg/l 6.
- 2. Lead 0.4 mg/l 7.
- 3. Cadmium 0.06 mg/l 8.
- 4. 9.
- 5. 10.

Since it is noted that these concentrations constitute a violation of the N.Y.S. Environmental Conservation Law and the Suffolk County Sanitary Code, please be advised that the discharge of any waste from an industrial system to the jurisdiction of Suffolk County without having first obtained a State Pollution Discharge Elimination System permit for such discharge is also a violation of the N.Y.S. E.C.L. and of the Suffolk County Sanitary Code, Article 11.

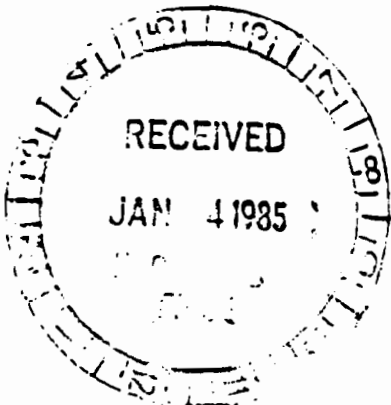
If you do not already possess a valid SOSIS permit for the above discharge, then you should apply immediately through state office for such permit.

Since the above noted violations may subject you to legal action, it is advised that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to five thousand (\$5,000) dollars per violation. E.C.L. violations are also subject to a civil penalty. A representative of the state office will determine your compliance in this matter.

Very truly yours:

John H. Hill
John H. Hill, Esq., Director
Environmental Pollution Control

IN WITNESS WHEREOF I have hereunto set my hand and the seal of the State of New York
this 27th day of December, 1984.



NOTICE OF VIOLATION
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES
Fairchild Republic Company
Conklin Street
Farmingdale, New York 11735

Date December 26, 1984
SPDES NO. NY008-9621
Lab. No. 11-84-276
Field No. 1D011/29

Attention: Mr. Tom Webb

Gentlemen:

On November 29, 1984 samples of industrial waste were taken from your SPDES #001 "Industrial Waste Treatment Plant, Discharge". Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

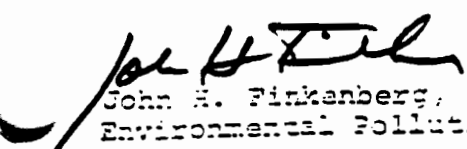
- | | |
|----------------------------|-----|
| 1. Total-Chromium 1.7 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

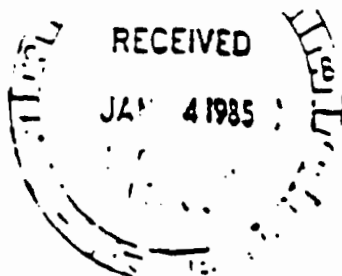
Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first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

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

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

Very truly yours,


John H. Pinkenberg, Sr. Sanitarian
Environmental Pollution Control



COUNTY OF SUFFOLK



Public Health
Suffolk County Health Dept

HEADQUARTERS - EAST SERVICES
Fairchild Republic Company
Conklin Street
Farmingdale, New York 11735

Date December 26, 1984
SPDES NO. NY008-0621
Lab. No. 11-54-276
Field No. 1001/20

Attention: Mr. Tom Webb

Comments:

On November 29, 1984 samples of industrial waste were taken from your SPDES #001 "Industrial Waste Treatment Plant, Discharge". Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES permit or in groundwater effluent standards:

- | | |
|----------------------------|-----|
| 1. Total-Chromium 1.7 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

There is a violation of the above listed parameters... This is a violation of the State Pollution Discharge Elimination Act (SPDES) and the Suffolk County Health Department... You are required to take corrective action to bring your discharge into compliance with the SPDES permit and the Suffolk County Health Department regulations.

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

Since the aforementioned violations may subject you to legal action, it is suggested that you immediately advise the appropriate regulatory agency... You are advised that the above listed violations are a violation of the SPDES permit and the Suffolk County Health Department regulations. You are required to take corrective action to bring your discharge into compliance with the SPDES permit and the Suffolk County Health Department regulations.

Very truly yours,

[Signature]
John A. Fickelberg, Sr., Executive
Environmental Pollution Control

11-54-276
1001/20



Fairchild Republic Company Farmingdale, L. I., New York 11735

September 4, 1984

Bureau of Wastewater Facilities
Department of Environmental Conservation
50 Wolf Rd.
Albany, NY 12233

Re: UPA File No. 10-83-1454
SPDES Facility I.D. NO. NY-0089621

Gentlemen:

Pursuant to the schedule of compliance for the effluent limitations as specified on Page 4, Part I of the referenced permit, attached are the results of the short-term, high-intensity sampling program for outfalls #001 and #004.

In addition, please be advised that the engineering, plans and specifications, are presently in work for the rerouting of the discharges from the water quench tank in the foundry and the Lindberg heat treat in Bldg. 17 from outfall #003 to the industrial wastewater treatment plant.

If there are any questions, please contact me on (516)531-3332.

Very truly yours,

G. Thomas Webb
Chief Environmental Engineer

GTW/cg

cc: Department of Environmental Conservation
Regional Engineer - Region 1
NYS SUNY, Bldg. 40
Stony Brook, NY 11790

Suffolk County
Dept. of Health Svc.
15 Horseblock Place
Farmingville, NY 11738
Att: G. Watt

G. Assmus, W. Cassidy, J. Vecchio

ECOTEST LABORATORIES, INC.

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

Aug. 22, 1986

Fairchild Republic Company
Farmingdale, NY 11735

SOURCE OF SAMPLE: Day 3 of 3 consecutive days Grab
samples Compliance Action

COLLECTED: 8/1/84 BY: ND/ECOTEST RECEIVED: 8/1/84

SAMPLE#1: Outfall #001
SAMPLE#2: Outfall #004

1A29C841334/1
2A54C841334/2

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS	#1	#2
Methylene Chloride, µg/L	<2	—
Toluene, µg/L	2	—
Tetrachloroethylene, µg/L	<2	<2
Trichloroethylene, µg/L	9	—
1,1,1 Trichloroethane, µg/L	<1	—
m-Xylene, µg/L	<2	<2
c+p-Xylene, µg/L	<4	<4
Benzene, µg/L	—	<2

REMARKS:

DIRECTOR



March 30, 1943

Dr. A. T. Davis, Commissioner
Suffolk County Health Department
Riverhead, New York

Dear Doctor Davis:

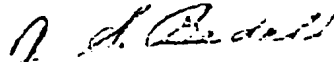
We are enclosing herewith copy of permit issued this day to the Republic Aviation Corporation to discharge sewage effluent from the existing sewage disposal works serving its factory buildings and those of Ranger-Aircraft Engines at East Farmingdale in the town of Babylon, as modified by the additions and alterations shown on the plans approved this day, into the ground waters of the State tributary to Great South Bay at the points on the property shown on the approved plans within the town of Babylon, Suffolk County, New York.

This copy is intended for filing in your office.

We are also attaching a duplicate set of the approved plans for your files.

These plans call for the enlargement of the existing sewage disposal works by the construction of two additional open sand filters (without underdrains) to provide a total filter area of about 4 acres to serve an estimated future population of 12,000.

Very truly yours



A. S. Bedell
Chief, Bureau of Sewage and Waste Disposal

Encl.

Copy to:

Dr. Haffle, D.S.H.O.-New York

JCB:AL

ECOTEST LABORATORIES, INC.

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (515) 422-5777

Aug. 22, 1984

Fairchild Republic Company
Farmingdale, NY 11735

SOURCE OF SAMPLE: Day 2 of 3 consecutive days Grab
samples Compliance Action

COLLECTED: 7/31/84 BY: MD/ECOTEST RECEIVED: 7/31/84

SAMPLE#1: Outfall #001
SAMPLE#2: Outfall #004

LAB#C841317/1
LAB#C841317/2

ANALYTICAL PARAMETERS	#1	#2
Methylene Chloride, µg/L	<2	—
Toluene, µg/L	2	—
Tetrachloroethylene, µg/L	<2	<2
Trichloroethylene, µg/L	5	—
1,1,1 Trichloroethane, µg/L	<1	—
m-Xylene, µg/L	<2	<2
o+p-Xylene, µg/L	<4	<4
Benzene, µg/L	—	<1

REMARKS:

DIRECTOR



ECOTEST LABORATORIES, INC.

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

Aug. 22, 1984

Fairchild Republic Company
Farmingdale, NY 11735

SOURCE OF SAMPLE: Day 1 of 3 consecutive days Grab
samples Compliance Action

COLLECTED: 7/30/84 BY: MD/ECOTEST RECEIVED: 7/30/84

SAMPLE#1: Outfall #001
SAMPLE#2: Outfall #004


LAB#C841305/1
LAB#C841305/2

ANALYTICAL PARAMETERS

	#1	#2
Methylene Chloride, µg/L	<2	—
Toluene, µg/L	3	—
Tetrachloroethylene, µg/L	<2	<2
Trichloroethylene, µg/L	20	—
1,1,1 Trichloroethane, µg/L	<1	—
m-Xylene, µg/L	<2	<2
o+p-Xylene, µg/L	<4	<4
Benzene, µg/L	—	<1

REMARKS:

DIRECTOR





PETER F. CONALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

David Harris, M.D., M.P.H.
Commissioner

February 21, 1984

Mr. Tom Webb
Fairchild Republic Co
Conklin Street
Farmingdale, NY 11735

Re: SPDES Effluent Limit Violations

Dear Sir:

Attached is a copy of a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt

Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg Y
J. Gladysz
D. Gobb:

WNY 11
1-4088BLOCK PLACE

FARMINGDALE, NEW YORK 11735

310.031-4033

FAIR 20500

New York State
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES DMR EXCEPTION REPORT

Facility I.D. No. Disch. Class Toxic Indica.

0089621 08 2
Fairchild Republic Co A.T.N
Fairchild Republic Co Tom Webb
Babylon (T) 47 1
02 17 01

Type Establishment Major Basin Permit Type

Priority Report Frequency: Monthly Quarterly Semi-Annual Annual

Outfall Number	Parameter	Reporting Units		Permit Value	TRC Value	REPORTED VALUES							
						8/31/83	11/30/83						
001	pH	SC	min.	6.5	5.5	1.3	1.8						
Outfall Description			ave.										
			max.	8.5	9.5	12.47	11.89						
001	Nitrogen Total	mg/l	min.										
Outfall Description			ave.										
			max.	10	14	13.46	22.8						
001	Aluminum Total	mg/l	min.										
Outfall Description			ave.										
			max.	2.0	2.4	21.74	15.45						
001	Zinc Total	mg/l	min.										
Outfall Description			ave.										
			max.	0.6	.72	1.674	.708						
001	Chromium Total	mg/l	min.										
Outfall Description			ave.										
			max.	2.0	2.4	7.45	16.63						
001	Iron Total	mg/l	min.										
Outfall Description			ave.										
			max.	0.6	.84	5.06	4.256						
001	Chromium Hex	mg/l	min.										
Outfall Description			ave.										
			max.	0.1	0.12		.289						

E	DATE	COMMENTS:
171	11/13/83	LDN 11/13/84

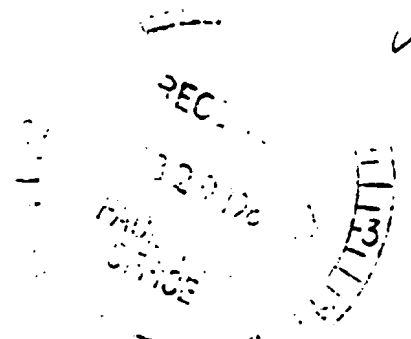
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

David Harris, M.D., M.P.H.
Commissioner

DEPARTMENT OF HEALTH SERVICES



February 21, 1984

Mr. Tom Webb
Fairchild Republic Co
Conklin Street
Farmingdale, NY 11735

*From
DMR
IND. WWTP*

Re: SPDES Effluent Limit Violations

Dear Sir:

Attached is a copy of a summary of your wastewater indicating effluent limitation violations. These v were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt
Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg X
J. Gladysz
D. Gobbi

COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

David Harris, M.D., M.P.H.
Commissioner

DEPARTMENT OF HEALTH SERVICES

February 21, 1984

Mr. Tom Webb
Fairchild Republic Co
Conklin Street
Farmingdale, NY 11735

Re: SPDES Effluent Limit Violations

Dear Sir:

Attached is a copy of a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg X
J. Gladysz
D. Gobbi



Fairchild Republic Company Farmingdale, L. I. New York 11735-1793

December 22, 1983

Suffolk County Department of Health Services
15 Horseblock Place
Farmingville, NY 11738

Att: J. H. Finkenberg

Re: Notice of Violation 11/14/83

Dear Mr. Finkenberg:

This is in response to the referenced notice of violation for a Cadmium contamination reading of 0.06 mg/l in the Sewage Plant effluent.

While we do not have a Cadmium Plating Line here at FRC, we have included Cadmium in the weekly wastewater analysis of the Industrial Wastewater Treatment Plant effluent. Monitoring this waste stream for Cadmium should provide us with the information necessary to determine if this contaminant is coming from our plant.

If additional information is necessary, please contact me.

Very truly yours,

A handwritten signature in cursive script that reads "T. Webb".

T. Webb
Chief Environmental Engineer

TW/cg

cc: G. Assmus
J. Vecchio

OFFICE OF SUPERVISOR
COUNTY OF SUFFOLK



OFFICE OF SUPERVISOR
SUFFOLK COUNTY, NEW YORK

10/17/83

DEPARTMENT OF HEALTH SERVICES
Fairchild Republic Co.
Conklin Street
Farmingdale, New York 11735
ATTENTION: Mr. T. Webb, Chief Eng.
(Republic STP)

Date November 14, 1983
SPDES NO. _____
Lab. No. 10-83-168
Field No. 1-DO-10-17

Sir:

On Oct. 17, 1983 samples of industrial waste were taken from your Effluent upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- | | | |
|------------|-----------|-----|
| 1. Cadmium | 0.06 mg/l | 6. |
| 2. | | 7. |
| 3. | | 8. |
| 4. | | 9. |
| 5. | | 10. |

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any waste from an industrial process to the sewers of Suffolk County without having first obtained a State Pollution Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 10.

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

Since the aforementioned violations may subject you to legal action, as is expressed, please correct these violations as soon as possible. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred (\$500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A representative in the near future will determine your compliance in this matter.

Very truly yours,

John H. Tully
John H. Tully, Esq., Supervisor
Environmental Pollution Control

FAIR 20499

✓

NOTICE OF VIOLATION
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES
Fairchild Republic Co.
Conklin Street
Farmingdale, New York 11735
ATTENTION: Mr. T. Webb, Chief Eng.
(Republic STP)

Date November 14, 1983
SPDES NO. _____
Lab. No. 10-83-168
Field No. 1-DO-10-17

Gentlemen:

On Oct. 17, 1983 samples of industrial waste were taken from your
Effluent

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

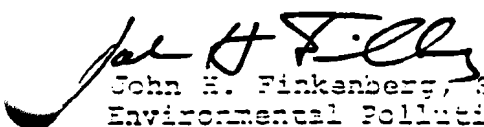
1. Cadmium	0.06 mg/l	6.
2.		7.
3.		8.
4.		9.
5.		10.

Please be advised that these unsatisfactory conditions constitute viola-
tions of the N.Y.S. Environmental Conservation Law and/or the Suffolk
County Sanitary Code. Please be further advised that the discharge of
any water from an industrial process to the groundwater of Suffolk County
without having first obtained a State Pollution Discharge Elimination
System (SPDES) Permit for that discharge is also a violation of the N.Y.S.
E.C.L. and/or the Suffolk County Sanitary Code, Article 11.

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

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

Very truly yours,


John H. Finkenberg, Sr. Sanitarian
Environmental Pollution Control

15 Horseblock Pl. (SEE REVERSE SIDE FOR STANDARDS)
Farmingville, NY 11738

(516) 451-4628

Schedule I

Applicability. The following effluent standards and/or limitations shall apply to all Class GA waters in New York State.

Biological organisms. Bacteria and/or pathogenic organisms shall not be discharged in amounts sufficient to render fresh ground waters detrimental to public health, safety or welfare.

Chemical Characteristics

<u>Substance</u>	<u>Maximum Allowable Concentration in mg/l (unless otherwise noted)</u>
(1) Aluminum	(1) 2.0
(2) Arsenic	(2) 0.05
(3) Barium	(3) 2.0
(4) Cadmium	(4) 0.02
(5) Chloride	(5) 500
(6) Chromium (Cr) (Hexavalent)	(6) 0.10
(7) Copper	(7) 1.0
(8) Cyanide	(8) 0.40
(9) Fluoride	(9) 3.0
(10) Foaming Agents ¹	(10) 1.0
(11) Iron ²	(11) 0.6
(12) Lead	(12) 0.05
(13) Manganese ²	(13) 0.6
(14) Mercury	(14) 0.004
(15) Nickel	(15) 2.0
(16) Nitrate (as N)	(16) 20
(17) Oil and Grease	(17) 15
(18) Phenols	(18) 0.002
(19) Selenium	(19) 0.04
(20) Silver	(20) 0.1
(21) Sulfate	(21) 500
(22) Sulfide	(22) 1.0
(23) Zinc	(23) 5.0
(24) pH Range ³	(24) 6.5-8.5
(25) Aldrin, or 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro- <u>endo</u> -1,4-exo-5,8-dimethanonaphthalene	(25) not detectable
(26) Chlordane, or 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindane	(26) 0.1 ug/l
(27) DDT, or 2,2-bis-(p-chlorophenyl)-1,1,1-trichloroethane and metabolites	(27) not detectable
(28) Dieldrin, or 6,7-epoxy aldrin	(28) not detectable
(29) Endrin, or 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,5,7,8,8a-octahydro- <u>endo</u> -1,4- <u>endo</u> -5,8-dimethanonaphthalene	(29) not detectable
(30) Heptachlor, or 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane and metabolites	(30) not detectable
(31) Lindane and other Hexachlorocyclohexanes or mixed isomers of 1,2,3,3,5,6-hexachloro-cyclohexane	(31) not detectable



Fairchild Republic Company Farmingdale L.I. New York 11735-1793

August 17, 1983

County of Suffolk
Department of Health Services
15 Horseblock, New York 11738

Attn: Gordon Watt

Dear Mr. Watt,

This is in response to your letter of July 27, 1983.

As stated in our May 31, 1983 letter, we have recognized the operating problems with our Industrial Wastewater Treatment Plant due to the changing characteristics of the plant influent. Positive steps have been taken to upgrade the treatment facility in that a Conceptual Design Study was completed in 1981 followed by a Preliminary Engineering Study that was just approved on August 9, 1983 by the Suffolk County Department of Public Works.

Having anticipated this approval, we initiated the final engineering, drawings, and specifications for the upgrading of the plant. The engineering is approximately 50% complete, and we expect to review the plans and specifications with the County by mid October.

In addition, we have installed additional automatic process controls in the wastewater plant as an interim measure to improve our treatment capabilities. The final solution, however, is to complete the upgrading of the plant, and then make the connection to the municipal sewer.

Very truly yours,

cc: G. Assmus
J. Vecchio

G. Thomas Webb
Chief Environmental Engineer

TW/mp

PERMIT NO.: NY-0089621

FACILITY NAME: Fairchild Republic Company

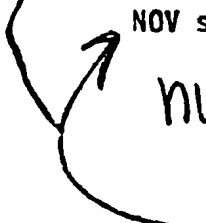
REGION: 1

DISCH. CLS.: 01

COUNTY: Suffolk

0089621

<u>C</u>	<u>DATE</u>	<u>COMMENT</u>
SAC	05/11/82	Working on report to connect to sewer district.
T		DMR Received 4/13/82 Not available
GW	8/24/82	violation letter sent
GW	11/19/82	Nov. sent 11/19/82
GW	11/30/82	Hired consultant to implement water conservation measures and design equilization tank. Expect to connect to SWSD in the fall of '83. Present unit undersized. (2/28/83)
GW	2/28/83	No new data - NOV 5/23/83
GW	2/28/83	NOV sent 5/13/83


 Numerous violations
 results?
 sub case to comment?

EXCEPTION REPORT

UUC7024
 FAIRCHILD REPUBLIC CO
 FAIRCHILD REPUBLIC CO
 BABYLON (T) 47 1
 02 17 01

Type Establishment Major Basin Permit Type
 Report Frequency: Monthly Quarterly Semi-Annual Annual

REPORTED VALUES Page 1
 REPORT PERIOD END DATES

Parameter	Reporting Units	Permit Value	TRC Value	REPORTED VALUES									
				REPORT PERIOD END DATES									
				11/30/81	2/28/82	5/31/82	8/31/82	11/30/82	2/28/83				
Flow MGD fall Description	min.												
	ave.												
	max.	.288	.403	NR	NR	NA	NA						
PH SU fall Description	min.	6.5	5.5	5.6	5.8	3.6	2.2	2.8	5.4				
	ave.												
	max.	8.5	9.5			11.2	11.2	11.6					
Nitrogen Total mg/l fall Description	min.												
	ave.												
	max.	10	14	91.35	33.35	199.27		10.81	427.38				
Fluoride mg/l fall Description	min.												
	ave.												
	max.	3.0	4.2	89		4.39	3.05		31				
Aluminum Total mg/l fall Description	min.												
	ave.												
	max.	2.0	2.4	165.67	16.2	70.55	31.74	1833	106.45				
Chromium Total mg/l fall Description	min.												
	ave.												
	max.	2.0	2.2	264.71	9.757	31.7	8.11	2775	94.4				
Iron Total mg/l fall Description	min.												
	ave.												
	max.	0.5	0.7	6.733	2.402	.958	1.644	168.25	6.091				

C	DATE	COMMENTS:
	*	DMR received 4/13/82
		Not Available
		RD new distn - NOV 5/23/83

New York State
 DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 SPDES DMR EXCEPTION REPORT

Facility I.D. No. 0089621
 Jisch. Class 03
 Toxic Indic 2
 Fairchild Republic Co.
 Fairchild Republic Co.
 Babylon (N) 47
 02 17 01
 Type Establishment Major Basin Permit Type

Priority Report Frequency: Monthly Quarterly Semi-Annual Annual

Outfall Number	Parameter	Reporting Units	Permit Value	TRC Value	REPORTED VALUES						
					2/25/82 C	5/31/82 C	8/31/82 C	11/30/82 C	2/28/83 C	5/31/83	
001	Zinc Total	mg/l	min.								
Outfall	Description	ave.									
		max.	0.6	.72	.717	2.327	1.988	162.25	22.25	1/028	
001	Chromium Hex	mg/l	min.								1
Outfall	Description	ave.									1
		max.	0.1	.12		2.493		1.607	.149	1.684	
001	pH	su	min.	6.5	5.5						2.33
Outfall	Description	ave.									1
		max.	8.5	9.5						11.67	
001	Nitrogen Total	mg/l	min.								1
Outfall	Description	ave.									1
		max.	10	14						16.4	
001	Aluminum Total	mg/l	min.								1
Outfall	Description	ave.									1
		max.	2.0	2.4						32.4	
001	Chromium Total	mg/l	min.								1
Outfall	Description	ave.									1
		max.	2.0	2.4						5.419	
001	Iron Total	mg/l	min.								1
Outfall	Description	ave.									1
		max.	0.6	.84						.726	

RECEIVED

S.C. DEPT. OF HEALTH SERVICES

DATE: NOV 7/27/83
 COMMENTS: Mr. Webb reports that the proposal to upgrade the treatment facility has been submitted to SC & PW for review. In addition some equipment has been ordered. Upon approval of their report upgrading will commence. Connection to SWSB changed to 84.

New York State
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES DMR EXCEPTION REPORT

Facility I.D. No. 0089621
Disch. Class 08
Toxic Indi 2
Fairchild Republic CO ATN
Fairchild Republic CO TOM WESS,
Babylon (T) 47 01
02 17

Type Establishment Major Basin Permit Typ

Priority Report Frequency: Monthly Quarterly Semi-Annual Annual

REPORTED VALUES page 3

REPORT PERIOD END DATES

Outfall Number	Parameter	Reporting Units		Permit Value	TRC Value	REPORT PERIOD END DATES					
						8/31/83	11/30/83				
001	pH	su	min.	6.5	5.5	1.3	1.8				
Outfall Description			ave.								
			max.	8.5	9.5	12.47	11.89				
001	Nitrogen Total	mg/l	min.								
Outfall Description			ave.								
			max.	10	14	13.46	22.8				
001	Aluminum Total	mg/l	min.								
Outfall Description			ave.								
			max.	2.0	2.4	21.74	15.45				
001	Zinc Total	mg/l	min.								
Outfall Description			ave.								
			max.	0.6	.72	1.674	.708				
001	Chromium Total	mg/l	min.								
Outfall Description			ave.								
			max.	2.0	2.4	7.45	16.63				
001	Iron Total	mg/l	min.								
Outfall Description			ave.								
			max.	0.6	.84	5.06	4.256				
001	Chromium Hex	mg/l	min.								
Outfall Description			ave.								
			max.	0.1	0.12		.289				

E	DATE	COMMENTS:
1/11	11/30/83	LO N 1/18/84

DECLARATION
JAN 76
HEALTH OF

COUNTY OF SUFFOLK



PETER F. CONALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

David Harris, M.D., M.P.H.
Commissioner

July 27, 1983

Mr. Thomas Webb
Chief Environmental Engineer
Fairchild Republic Co.
Farmingdale, New York 11735

Re: SPDES Effluent Limit Violations

Dear Sir:

Attached is a copy of a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

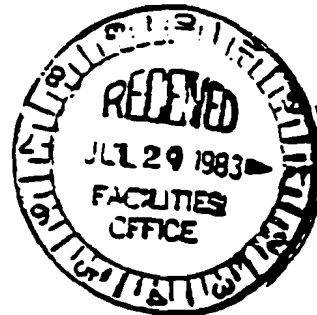
If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt
Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg x
I. Gladysz
J. Gobbi



FAIR 20502

COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

David Harris, M.D., M.P.H.
Commissioner

July 27, 1983

Mr. Thomas Webb
Chief Environmental Engineer
Fairchild Republic Co.
Farmingdale, New York 11735

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This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg x
J. Gladysz
D. Gobbi





Fairchild Republic Company Farmingdale L. I. New York 11735-1793

June 24, 1983

County of Suffolk
Department of Health Services
15 Horseblock Place
Farmingville, N.Y. 11738

Attn: J. H. Finkenberg

Gentlemen:

In response to the Notice of Violation dated June 20, 1983, for the presence of tetrachlorethylene and 2 butanone in samples taken from the sewage plant effluent on March 9, 1983, the following actions have been taken:

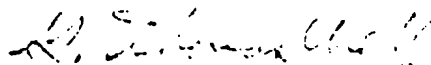
1. An immediate inspection and investigation of the plant areas where these two materials are utilized revealed no apparent leakage or dumping practices.
2. The testing for these two constituents has been added to the monthly sample analysis of the sewage treatment plant and the weekly sample analysis of the industrial wastewater treatment plant.
3. All maintenance supervisors and treatment plant operators have been alerted to take particular notice of any abnormal activities in the areas where these two materials are utilized. Production supervision has also been notified.

As per our phone discussion this date, the concentrations are so small (110 ppb compared to a standard of 50 ppb) that the presence in the sewage effluent was probably the result of an isolated occurrence. However, since the sewage treatment plant services the entire complex including the New York State property north of Conklin Street, and the hangar area along New Highway, there is a distinct possibility that this material did not come from the Fairchild plant.

If additional information is required, please call me immediately.

Very truly yours,

Fairchild Republic Company



G. Thomas Webb
Chief Environmental Engineer

cc: G. Assmus
J. Vecchio

NOTICE OF VIOLATION
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE



DEPARTMENT OF HEALTH SERVICES
Fairchild Republic
Conklin Street
Farmingdale, N.Y. 11735

Date June 20, 1983
SPDES NO. NY 0089621
Lab. No. IW 38 3020
Field No. 3 EJ 3-9

ATTENTION: Mr. Webb
Gentlemen:

On 3/9/83 samples of industrial waste were taken from your sewage treatment plant effluent. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- | | |
|----------------------------------|---|
| 1. Tetrachloroethylene - 110 ppb | 6. (PERCHLOR) ONLY ^{MASK}
_{AREA} |
| 2. 2-Butanone - 110 ppb | 7. (MEK) |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

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

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

Very truly yours,

COPY TO G-A 6/22/83

John H. Pinkenberg, Sr. Sanitarian
Environmental Pollution Control

STANDARD IS 50 PPB

EXTREME AMOUNT IS 1000 PP

15 Horseblock Pl. (SEE REVERSE SIDE FOR STANDARDS)
Farmingville, NY 11738

(516) 451-~~4632~~
4635



Fairchild Republic Company Farmingdale, L. I. New York 11735-1793

May 31, 1983

County of Suffolk
Department of Health Services
15 Horseblock Place
Farmingville, New York 11738

Attention Gordon Watt

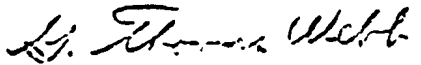
Gentlemen:

This is in response to your letter of 5/24/83 regarding the SPDES DMR Exception Report for the period ending 2/28/83.

The values reported are a result of significant changes in the characteristics of the treatment plant influent which were detected in September, 1980. The following actions were initiated at that time:

- 1) A conceptual design engineering study for Upgrading the Wastewater Treatment Plant was completed July 1981, reviewed with the County, and the concept accepted Sept., 1981.
- 2) A preliminary engineering report for Upgrading the Wastewater Treatment Plant was completed November 1982 and submitted to the Suffolk County Department of Public Works for approval. (Presently awaiting approval)
- 3) Upon approval of the preliminary engineering report, detailed engineering (plans and specifications) will be started. A construction schedule will then be developed and submitted to the County.

If additional information is required, please contact this writer.


G. Thomas Webb
Chief Environmental Engr.

cc: G. Assmus
J. Vecchio

S COUNTY OF SUFFOLK ✓



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

REVIEW
DMR
Ind. WWTP.

DEPARTMENT OF HEALTH SERVICES

Day: .D. H.
Comm

May 24, 1983

Fairchild Republic
Route 110
Farmingdale, NY 11735

Re: SPDES Effluent Limit Violations

Dear Sir:

Attached is a copy of a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt

Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg X
J. Gladysz
D. Gobbi



4648



PETER F. COMALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

David Harris, M.D., M.P.H.
Commissioner

May 24, 1983

Fairchild Republic
Route 110
Farmingdale, NY 11735

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If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,


Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg x
J. Gladysz
D. Gobbi



WWM 11
19 HORSEBLOCK PLACE

FARMINGVILLE, NEW YORK 11735

4648
1810 05 1983

FAIR 20507

BABYLON (T) 47 3
 02 27 01
 Type Establishment Major Basin Permit type

Priority Report Frequency: Monthly Quarterly Semi-Annual Annual

Outfall Number	Parameter	Reporting Units	Permit Value	TRC Value	REPORTED VALUES												
					REPORT PERIOD END DATES												
					11/30/81	2/28/82	5/31/82	8/31/82	11/30/82	2/28/83							
001	Flow	MGD	min.														
Outfall Description			ave.														
			max.	.288	.403	NR	NR	NA	NA								
001	PH	SK	min.	6.5	5.5	5.6	5.8	3.6	2.2	2.8	5.4						
Outfall Description			ave.														
			max.	8.5	9.5			11.2	11.2	11.6							
001	Nitrogen Total	mg/l	min.														
Outfall Description			ave.														
			max.	10	14	91.35	33.35	199.27		10.81	427.38						
001	Fluoride	mg/l	min.														
Outfall Description			ave.														
			max.	3.0	4.2	89		4.39	3.05		31						
001	Ammonia Total	mg/L	min.														
Outfall Description			ave.														
			max.	2.0	2.4	165.67	16.2	70.55	31.74	1833	106.45						
001	Chlorine Total	mg/l	min.														
Outfall Description			ave.														
			max.	2.0	2.2	264.77	9.757	31.7	8.11	2775	94.4						
001	Iron	mg/l	min.														
Outfall Description			ave.														
			max.	0.5	0.7	6.733	2.402	.958	1.644	168.25	6.091						
C	DATE	COMMENTS:															
	*	DMR received 4/13/82															
1		NOT AVAILABLE															
1/13/83 no new data - NOV 5/23/83																	

SPDES DMR EXCEPTION REPORT

0083621 03 2
FAIRCHILD H. LIC CO
FAIRCHILD REPUBLIC CO
BABYLON (T) 47 1
02 17 01

Type Establishment Major Basin Permit Type

Priority Report Frequency: Monthly Quarterly Semi-Annual Annual

Outfall Number	Parameter	Reporting Units	Permit Value	TRC Value	REPORTED VALUES						
					11/30/81	2/28/82	5/31/82	8/31/82	11/30/82	2/28/83	
001	Flow	MGD	min.								
Outfall Description			ave.								
			max.	.288	.403	NR	NR	NA	NA		
001	PH	SU	min.	6.5	5.5	5.6	5.8	3.6	2.2	2.8	5.4
Outfall Description			ave.								
			max.	8.5	9.5			11.2	11.2	11.6	
001	Nitrogen Total	mg/l	min.								
Outfall Description			ave.								
			max.	10	14	91.35	33.35	199.27		10.81	427.38
001	Fluoride	mg/l	min.								
Outfall Description			ave.								
			max.	3.0	4.2	89		4.39	3.05		31
001	Aluminum Total	mg/l	min.								
Outfall Description			ave.								
			max.	2.0	2.4	165.67	16.2	70.55	31.74	1833	106.45
001	Chromium Total	mg/l	min.								
Outfall Description			ave.								
			max.	2.0	2.2	264.77	9.757	31.7	8.11	2775	94.4
001	Iron Total	mg/l	min.								
Outfall Description			ave.								
			max.	0.5	0.7	6.733	2.402	.958	1.644	168.25	6.091

C	DATE	COMMENTS:
	*	DMR received 4/13/82
1		Not Available
		NO new data - NOV 5/23/83

REPORT PERIOD END DATES

NOTICE OF VIOLATION
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Fairchild Republic STP
New Highway
Farmingdale, NY 11735

Date 5-9-83
SPDES NO. NY007476
Lab. No. M 848
Field No. 1 DO 3-28

Gentlemen:

On 28 March 1983 samples of industrial waste were taken from your effluent

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

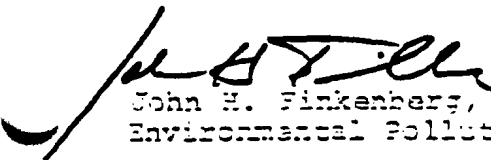
1. Fecal Coliform > 2400 mpn/100 ml 6.
2. 7.
3. 8.
4. 9.
5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 13.

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

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

Very truly yours,


John H. Finkenberg, Sr. Sanitarian
Environmental Pollution Control

15 Horseblock Pl.
Farmingville, NY 11738
(516) 451-4628

(SEE REVERSE SIDE FOR STANDARDS)

*5/12/83 Enclosed findings will
John Finkenberg, Suffolk County
due to not being able to circum-
ventting these because of adverse
conditions have been cleaned, reading
the well within limits. The road will
This may not have no test results
at Republic to any amount must be
coming from. All right from the*

Sei *[Signature]*

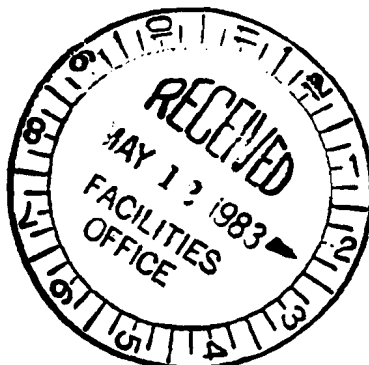
Schedule 1

Applicability. The following effluent standards and/or limitations shall apply to all Class GA waters in New York State.

Biological Organisms. Coliform and/or pathogenic organisms shall not be discharged in amounts sufficient to render fresh ground waters detrimental to public health, safety or welfare.

Chemical Characteristics

<u>Substance</u>	<u>Maximum Allowable Concentration in mg/l (unless otherwise noted)</u>
(1) Aluminum	(1) 2.0 ¹
(2) Arsenic	(2) 0.05
(3) Barium	(3) 2.0
(4) Cadmium	(4) 0.02
(5) Chloride	(5) 500
(6) Chromium (Cr) (Hexavalent)	(6) 0.10
(7) Copper	(7) 1.0
(8) Cyanide	(8) 0.40
(9) Fluoride	(9) 3.0
(10) Foaming Agents ¹	(10) 1.0
(11) Iron ²	(11) 0.6
(12) Lead	(12) 0.05
(13) Manganese ²	(13) 0.6
(14) Mercury	(14) 0.004
(15) Nickel	(15) 2.0
(16) Nitrate (as N)	(16) 20
(17) Oil and Grease	(17) 15
(18) Phenols	(18) 0.002
(19) Selenium	(19) 0.04
(20) Silver	(20) 0.1
(21) Sulfate	(21) 500
(22) Sulfide	(22) 1.0
(23) Zinc	(23) 5.0
(24) pH Range ³	(24) 6.5-8.5
(25) Aldrin, or 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene	(25) not detectable ⁴
(26) Chlordane, or 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene.	(26) 0.1 ug/l
(27) DDT, or 2,2-bis-(p-chlorophenyl)-1,1,1-trichloroethane and metabolites	(27) not detectable ⁴
(28) Dieldrin, or 6,7-epoxy aldrin	(28) not detectable ⁴
(29) Endrin, or 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene	(29) not detectable ⁴
(30) Heptachlor, or 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene and metabolites	(30) not detectable ⁴
(31) Lindane and other Hexachlorocyclohexanes or mixed isomers of 1,2,3,3,5,6-hexachlorocyclohexane	(31) not detectable ⁴



NOTICE OF VIOLATION
COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Fairchild Republic STP
New Highway
Farmingdale, NY 11735

Date 5-9-83
SPDES NO. NY0074276
Lab. No. 3-83-308
Field No. 4 DO 3-28

Gentlemen:

On 28 March 1983 samples of industrial waste were taken from your influent at STP. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

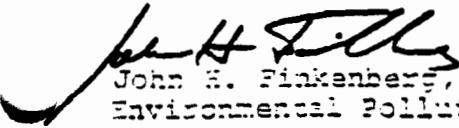
- | | |
|----------------------|-----|
| 1. Cadmium 0.04 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

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

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

Very truly yours,


John E. Finkenberg, Sr. Sanitarian
Environmental Pollution Control

15 Horseblock Pl. (SEE REVERSE SIDE FOR STANDARDS)
Farmingville, NY 11738

(516) 451-4628

Schedule 1

Applicability. The following effluent standards and/or limitations shall apply to all Class CA waters in New York State.

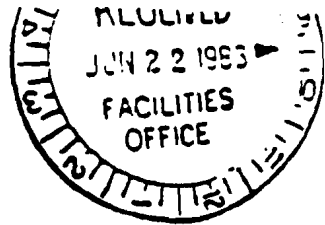
Biological organisms. Coliform and/or pathogenic organisms shall not be discharged in amounts sufficient to render fresh ground waters detrimental to public health, safety or welfare.

Chemical Characteristics

<u>Substance</u>	<u>Maximum Allowable Concentration in mg/l (unless otherwise noted)</u>
(1) Aluminum	(1) 2.0
(2) Arsenic	(2) 0.05
(3) Barium	(3) 2.0
(4) Cadmium	(4) 0.02
(5) Chloride	(5) 500
(6) Chromium (Cr) (Hexavalent)	(6) 0.10
(7) Copper	(7) 1.0
(8) Cyanide	(8) 0.40
(9) Fluoride	(9) 3.0
(10) Foaming Agents ¹	(10) 1.0
(11) Iron ²	(11) 0.6
(12) Lead	(12) 0.05
(13) Manganese ²	(13) 0.6
(14) Mercury	(14) 0.004
(15) Nickel	(15) 2.0
(16) Nitrate (as N)	(16) 20
(17) Oil and Grease	(17) 15
(18) Phenols	(18) 0.002
(19) Selenium	(19) 0.04
(20) Silver	(20) 0.1
(21) Sulfate	(21) 500
(22) Sulfide	(22) 1.0
(23) Zinc	(23) 5.0
(24) pH Range ³	(24) 6.5-8.5
(25) Aldrin, or 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro- <u>endo</u> -1,4-exo-5,8-dimethanonaphthalene	(25) not detectable ⁴
(26) Chlordane, or 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene.	(26) 0.1 ug/l
(27) DDT, or 2,2-bis-(p-chlorophenyl)-1,1,1-trichloroethane and metabolites	(27) not detectable ⁴
(28) Dieldrin, or 6,7-epoxy aldrin	(28) not detectable ⁴
(29) Endrin, or 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,5,7,8,8a-octahydro- <u>endo</u> -1,4- <u>endo</u> -5,8-dimethanonaphthalene	(29) not detectable ⁴
(30) Heptachlor, or 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene and metabolites	(30) not detectable ⁴
(31) Lindane and other Hexachlorocyclohexanes or mixed isomers of 1,2,3,3,5,6-hexachloro-cyclohexane	(31) not detectable ⁴



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE



DEPARTMENT OF HEALTH SERVICES
Fairchild Republic
Conklin Street
Farmingdale, N.Y. 11735

Date June 20, 1983
SPDES NO. NY 0089621
Lab. No. IW 38 3020
Field No. 3 EJ 3-9

ATTENTION: Mr. Webb
Gentlemen:

On 3/9/83 samples of industrial waste were taken from your sewage treatment plant effluent. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- | | |
|----------------------------------|---|
| 1. Tetrachloroethylene - 110 ppb | 6. (PERCINOL) ONLY ^{MIEK} AREA |
| 2. 2-Butanone - 110 ppb | 7. (MIEK) |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

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

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

Very truly yours,

John W. Pinkenbend, Jr.
John W. Pinkenbend, Jr., Supervisor
Environmental Pollution Control

15 Woodcock Rd. 11735
Farmingdale, NY 11735

(516) 461-4635
4635

COPY TO C-A 6/21/83
STANDARD IS 50 PPB
EXTREME AMOUNT IS 1000 PPB

FAIR 20506

COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE



DEPARTMENT OF HEALTH SERVICES

February 3, 1983

Fairchild Republic STP
New Highway
Farmingdale, NY 11735
Re: Sewage Treatment Plant

Dear Sir:

On December 13, grab samples from the above-referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	_____ mg/L	45 mg/L Max. BOD
Suspended Solids	<u>34</u> mg/L	45 mg/L Max. Sus. Sol.
Fecal Coliform	_____ org/100ml.	400/100 ml Max. fecal col
pH	<u>2.7</u>	6.5 - 8.5 pH
Total Nitrogen	_____	10 mg/L Total Nitrogen
% Removal based on Total Organic Carbon (TOC)	_____	% Removal
Influent <u>95.</u>	Effluent <u>47.</u>	

Effluent values shall not exceed 15% of influent values (85% removal)

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law, Sections 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning the above, please call me at 234-2622.

Very truly yours,

John H. Finkenberg
Environmental Pollution Control

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

State
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES DMR EXCEPTION REPORT

Facility I.D. No. Disch. Class Toxic

0089621 03 2
FAIRCHILD REPUBLIC CO
FAIRCHILD REPUBLIC CO
BABYLON (T) 07 1
02 17 01

Priority Report Frequency: Monthly Quarterly Semi-Annual Annual

Outfall Number	Parameter	Reporting Units	Permit Value	TRC Value	REPORTED VALUES											
					REPORT PERIOD END DATES											
					11/30/81	2/28/82	5/31/82	8/31/82	11/30/82	2/28/83						
001	Flow	MGD	min.													
	Outfall Description		ave.													
			max.	.288	.403	NR	NR	NA	NA							
001	PH	SK	min.	6.5	5.5	5.6	5.8	3.6	2.2	2.8	5.4					
	Outfall Description		ave.													
			max.	8.5	9.5			11.2	11.2	11.6						
001	Nitrogen Total	mg/L	min.													
	Outfall Description		ave.													
			max.	10	14	91.35	33.35	199.27		10.81	427.32					
001	Fluoride	mg/L	min.													
	Outfall Description		ave.													
			max.	3.0	4.2	89		4.39	3.05		31					
001	Ammonia Total	mg/L	min.													
	Outfall Description		ave.													
			max.	2.0	2.4	165.67	16.2	70.55	31.74	1833	106.45					
001	Chlorine Total	mg/L	min.													
	Outfall Description		ave.													
			max.	2.0	2.2	264.77	9.757	31.7	8.11	2775	94.4					
001	Iron Total	mg/L	min.													
	Outfall Description		ave.													
			max.	0.5	0.7	6.733	2.402	.953	1.644	168.25	6.091					
C	DATE	COMMENTS:														
	*	DMR received 4/13/82														
1		Not Available														

PERMIT NO.: NY-0089621

FACILITY NAME: Fairchild Republic Company

REGION: 1

DISCH. CLS.: 01

COUNTY: Suffolk

0089621

<u>C</u>	<u>DATE</u>	<u>COMMENT</u>
SAC	05/11/82	Working on report to connect to sewer district.
1	*	DMR Received 4/13/82 Not available
GW	8/24/82	violation letter sent
GW	11/19/82	Nov. sent 11/19/82
GW	11/30/82	Hired consultant to implement water conservation measures and design equalization tank. Expect to connect to SWSO in the fall of '83. Present unit undersized. (2/28/83)
GW	2/28/83	No new data - NOV 5/23/83
GW	2/28/83	NOV sent 5/13/83

*Numerous violations
 results?
 schedule to comment?*

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

August 25, 1982

Fairchild Republic Co.
Route 110
Farmingdale, NY 11735

Dear Sir,

This is to inform you that a review of your Discharge Monitoring Report dated ~~11/30/81~~ *11/30/81 - 5/31/82*, for Outfall No. ~~001~~, indicates that permitted limitations were exceeded for *flow NR, pH, nitrogen, fluoride, aluminum, Chromium, iron, zinc, and Chromium*.

Please make an effort to find the cause of the violation and correct any deficiencies prior to next reporting period. If the violations are being caused by major problems with the treatment system, please contact this office in order that we may agree to a compliance schedule for upgrading of your treatment system.

Very truly yours,

Gordon J. Watt

Gordon J. Watt
Wastewater Management Section

GJW:he

NR. NOT reported

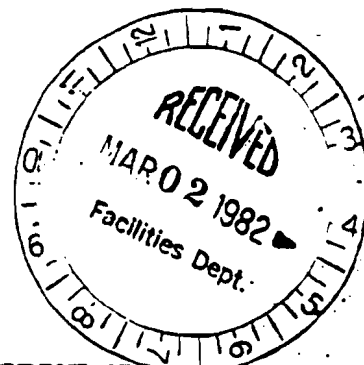
*Copy to
T. Watt 8-27-82*



COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES



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

Tom Webb, Facilities Engineer
Fairchild Republic Co.
Conklin Street
Farmingdale, New York 11735

Date 2-26-82
SPDES NO. NY 0089621
Lab No. 1-82-123
Field No. 1 EJ 1-20

Gentlemen:

On 1-20-82 samples of industrial waste were taken from your industrial treatment plant - effluent

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

- 1. Total Chromium - 200 mg/L . 6.
- 2. Chromium (Hexavalent) - 78 mg/L 7.
- 3. Lead - 0.2 mg/L 8.
- 4. pH - 4 . 9.
- 5. 10.

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

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

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

Very truly yours,

John H. Pinkenberg
John H. Pinkenberg
Sr. Sanitarian
Environmental Pollution Control
JHP/cc

(SEE REVERSE SIDE FOR STANDARDS)

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

T.W.

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

Mr. George Assumus, Facilities Mgr.
Republic Aviation
Route 110
Farmingdale, New York 11735

Date 2-4-82
SPDES NO. NY 0089621
Lab No. IW 182017
Field No. 1 EJ 1-20

Gentleman:

On 1-20-82 samples of industrial waste were taken from your industrial treatment plant effluent

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

- 1. 1,1,2 Trichloroethylene - 54 mg/L . 6.
- 2. Tetrachloroethylene - 14 mg/L . 7.
- 3. . 8.
- 4. . 9.
- 5. . 10.

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

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

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

Very truly yours,

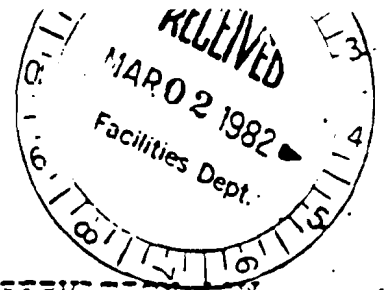
John H. Finkenberg
John H. Finkenberg
Sanitarian
Environmental Pollution Control
JHF/cc

(SEE REVERSE SIDE FOR STANDARDS)

Central Islip, N. Y. 11722



DEPARTMENT OF HEALTH SERVICES



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

Tom Webb, Facilities Engineer
 Fairchild Republic Co.
 Conklin Street
 Farmingdale, New York 11735

Date 2-26-82
 SPDES NO. NY 0089621
 Lab No. I-82-123
 Field No. I EJ 1-20

Gentlemen:

On 1-20-82 samples of industrial waste were taken from your industrial treatment plant - effluent.

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

1. Total Chromium - 200 mg/L . 6.
2. Chromium (Hexavalent) - 78 mg/L 7.
3. Lead - 0.2 mg/L 8.
4. pH - 4 . 9.
5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) permit for that discharge is also a violation of the N.Y.S.E.C.L. and S.C. Sanitary Code, Art. 11.

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

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

Very truly yours,

John M. Pinkenberg
 John M. Pinkenberg
 Sr. Sanitarian
 Environmental Pollution Control
 JMF/cc

(SEE REVERSE SIDE FOR STANDARDS)

Central Islip, N. Y. 11722

COUNTY OF SUFFOLK



T.W.

DEPARTMENT OF HEALTH SERVICES

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

Mr. George Assumus, Facilities Mgr.
Republic Aviation
Route 110
Farmingdale, New York 11735

Date 2-4-82
SFDIS No. NY 0089621
Lab No. IW 182017
Field No. 1 EJ 1-20

Gentlemen:

On 1-20-82 samples of industrial waste were taken from your
industrial treatment plant effluent

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

1. 1,1,2 Trichloroethylene - 54 mg/L 6.
2. Tetrachloroethylene - 14 mg/L 7.
3. 8.
4. 9.
5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollution Discharge Elimination System (SPDES) permit for that discharge is also a violation of the N.Y.S.E.C.L. and S.C. Sanitary Code, Sec. 11.

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

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

Very truly yours,

John H. Pickensberg
Sr. Sanitarian
Environmental Pollution Control
DHF/ee

(SEE REVERSE SIDE FOR
STANDARD)

General Office, N. Y. 11732
XXXXXXXXXXXXXXXXXXXX

Box G

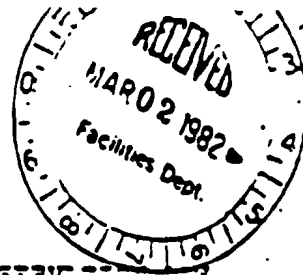
1111 214 1122

FAIR 20511

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES



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

Tom Webb, Facilities Engineer
Fairchild Republic Co.
Conklin Street
Farmingdale, New York 11735

Date 2-26-82
SPDES NO. NY 0089621
Lab No. 1-82-123
Field No. 1 EJ 1-20

Gentlemen:

On 1-20-82 samples of industrial waste were taken from your industrial treatment plant - effluent

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

- 1. Total Chromium - 200 mg/L
- 2. Chromium (Hexavalent) - 78 mg/L
- 3. Lead - 0.2 mg/L
- 4. pH - 4
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollution Discharge Elimination System (SPDES) permit for that discharge is also a violation of the N.Y.S.E.C.L. and S.C. Sanitary Code, Art. 11.

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

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

Very truly yours,

[Signature]
John W. Linkenberg
Sr. Sanitarian
Environmental Pollution Control
JSL/cc

(SEE REVERSE SIDE FOR STANDARDS)

Central Islip, N. Y. 11722

BOX G

FAIR 20510

May 13, 1982

Mr. Stephen A. Costa, P.E.
Suffolk County Department
of Health Services
65 Jetson Lane
Hauppauge, New York 11787

Dear Mr. Costa:

The following details the actions taken to identify the sources of the alleged contamination of the storm water disposal system and the corrective measures taken to prevent any future discharges as requested in Order on Consent, IW 82-7, Item 1A.

Also included are reports on the consultants method of sampling the water and bottom sediment of the Route 110 sump, and the engineering proposal for identifying the existence and extent of any "plume contamination" which may be emanating from the sump as requested in the "Consent", Items 2 and 3.

Item 1A

The two (2) organic solvents that were identified as methylene chloride and trichloroethylene are utilized at several locations in the manufacturing plant.

Methylene chloride is a constituent of a paint stripper (Turco 5404) that is utilized in Bldg. 63, Detail Paint Shop, to remove the paint build-up on paint racks. The material is in a dip tank into which the paint racks are immersed and then rinsed in an adjacent cold water rinse tank. Whenever the stripper tank has to be cleaned and replenished, the material is pumped into 55 gallon drums and disposed of by an authorized scavenger.

The only possible source of the organic solvent from this paint stripping operation is from the carry-over from the cold water rinse tank. The corrective action taken to prevent any future discharge from this facility was to plug the drain from the rinse tank. A valved drain line was extended to the outside



of the building where a scavenger truck can connect and pull out the contents of the rinse tank when it is full. We have changed the procedure of rinsing the racks by immersion to a spray rinse.

Another possible source of methylene chloride is the production paint stripping operation in the Alodine Room. This is a very small operation that utilizes only one (1) drum of stripper material (Turco 5469) approximately every four (4) months. The rinse tank drain has been plugged and all parts will be rinsed off inside the tank with a hose stream. The rinse water will be contained in this tank, and then pumped into a closed container for pick-up by an approved hauler. Production has been instructed to strictly control their personnel to prevent this rinse-off from occurring outside the tank.

The other organic solvent, trichloroethylene, is utilized at two (2) locations in the plant. One is a vapor degreaser in the Elox Area of Building 17. This degreaser is used very infrequently and there are no known connections to the storm sewer system in the area. The other location is the main vapor degreaser on the south side of Building 17. This degreaser is located in a pit which has a drain connection to the storm sewer.

Since this vapor degreaser is relatively new, having been installed in the spring of 1981, the possibility of a tank leak is remote. We felt that any discharge of this solvent may have come from the drain-off of water separators into the pit and the release of some material when the still was cleaned. We also suspect that, at times, unauthorized personnel wash parts with trichlor on the grating over the pit. We have repiped all the cooling water drains and condensate drains to a receiver/pump set that will discharge to the sanitary sewer. These drains are all from closed loop systems on the degreaser where there is no chance of contamination. The drain in the bottom of the pit has been sealed. In addition, we have instituted new procedures to contain the drainage from water separators and the residue from the still, and have issued instructions to production supervision to prohibit the practice of cleaning parts on the grating.

Please note that we have requested the independent test labs, who do our sampling and analysis, to add methylene chloride and trichloroethylene to the weekly analysis of the waste treatment effluent and storm water outfall.



Item 2

The following describes how our consultant will sample the recharge sump for water samples and sludge samples. The consultant has actually tried a sampling procedure and believes that he will be able to accomplish all sampling with a peristaltic pump and a core sampler.

During their sampling practice session, one of the objectives was to familiarize themselves with the sump area and water depths involved. They encountered depths in the range of 20' - 50' and found that the water was quite deep even near the shoreline. It is estimated that the length of the sump from north to south is about 1,100 feet long and that the widest section (north end) is about 570'. These measurements were estimated crudely by counting the fence posts surrounding the sump.

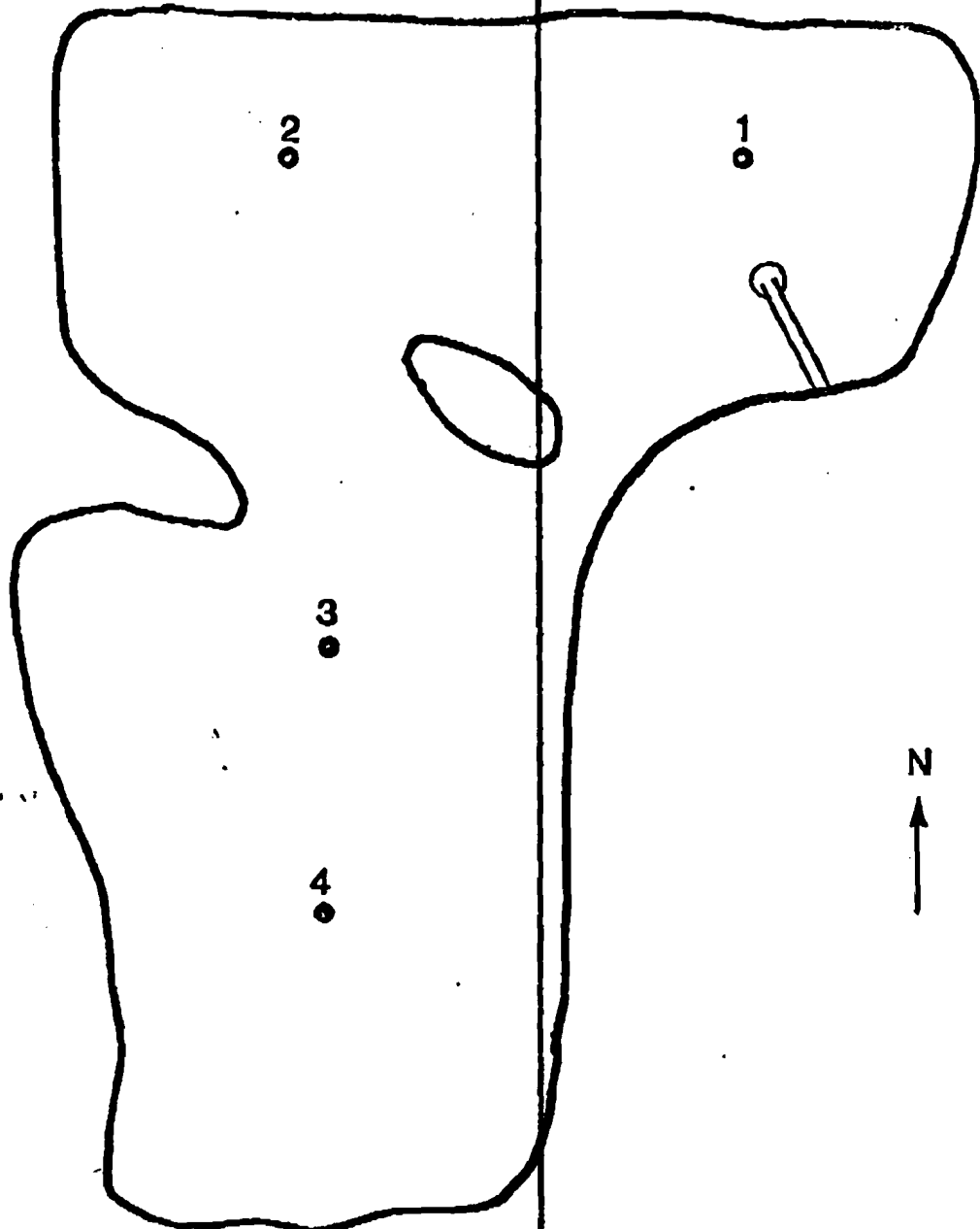
The consultant does not foresee any problem at all in sampling the water with a peristaltic pump. Water samples will be taken at four points as shown in Figure 1, with each point being sampled at three levels; surface, intermediate, and bottom. Sampling points have been rearranged slightly due to the irregular shape of the sump. The water samples will be analyzed for volatile organics using a gas chromatograph and atomic absorption for metals to scan for contaminants. An equal portion of each of the twelve water samples will be composited together and will be tested for the 129 priority pollutants as listed in Title 40 of the Code of Federal Regulations.

Sludge samples will be taken at the same four points and will also be taken at various depths using both the peristaltic pump for the upper watery layer of sludge and a core sampler for the deeper sludge which is not as easily pumped. As we probed different areas in the southern portion of the sump, rock or concrete rubble was frequently encountered.

Sediment samples will be collected at four locations and will be taken at various depths. Eight samples will be analyzed for organics and metals. If more than eight samples are collected, then they will be held and may be analyzed at a later date, if deemed necessary.

The sampling equipment consists of 5' sections of pvc pipe with threaded connections that can be added on in the boat as the sampling equipment is lowered. The pvc pipe is marked in 1' increments. A sampling probe attached via tubing to a

Figure 1
Sump Sampling Points





peristaltic pump may be attached with hose clamps to the end of the pvc pipe and used to pump watery sludge. A clear pvc tube may be attached to the end of the pvc pipe and utilized to obtain core samples into the sludge. All sampling will be done from a small boat.

We expect that the sampling can be accomplished in about two to three days. The engineering proposal for identifying the plume, item 3, is attached as a separate report.

If you require additional information, please contact me immediately.

Yours truly,

FAIRCHILD REPUBLIC COMPANY

G. Thomas Webb
Chief Environmental Engineer

GTW/kk
Attachment

COUNTY OF SUFFOLK



PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

September 16, 1981

Mr. Russ Gracy
Fairchild Republic Company
Conklin Street
Farmingdale, NY 11735

Re: Contamination of Stormwater Basin
on Route 110

Dear Mr. Gracy:

This letter is a follow-up to our discussions on August 20, 1981 at which time you were informed that our department has discovered organic contamination of the above mentioned sump and of water discharged through the storm drain system on your property. A summary of our current findings is enclosed. It should be noted that the water in the basin is colored bright green.

At our meeting, Mr. Vicoli of your firm stated that discharge from the industrial waste treatment plant continues into the basin. Discharge of industrial wastes into the basin and discharge of organic chemicals into the basin are violations of your SPDES permit and of Article XII of Suffolk County Sanitary Code.

In order to eliminate this continuing violation, it is necessary that you accomplish the following:

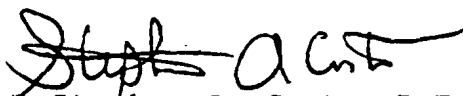
- 1 - Immediately eliminate the discharge from your industrial waste treatment plant or from the Titanium Chemical Mill area to the basin. Re-route same through your sanitary plant.
- 2 - Isolate possible sources of methylene chloride or trichloroethylene or color and eliminate possibilities of traces of these materials from entering the storm water system and prepare a report on your findings.
- 3 - Prepare a schedule for and implement the recently approved cooling water diversion plan.

September 16, 1981

- 4 - Investigate and report the full extent of the contamination in the basin by sampling the water at different levels and sampling sediments at different points in the basin. It is necessary to analyze at least one composite sample for the complete list of 129 priority pollutants.
- 5 - After creating a profile of conditions in the sump, propose methods of cleanup. Cleanup should consist of lowering the level in the sump to groundwater level by pumping through a treatment system to a separate discharge point to be determined (discharge to sewer may be explored with Suffolk County Department of Public Works) and treating the remaining water in place. The entire sump must also be scraped or dredged. Disposal of spoils depends upon the nature of any contamination found.
- 6 - Install a series of monitoring wells to define a plume and monitor the downstream groundwater plume for determining the nature and extent of possible past contamination. Locate any private or other water supply wells in the plume and monitor these for possible contamination.

Items 1 and 2 should be completed as soon as practically possible. A proposed schedule for completion of items 3-6 should be forwarded to this office by September 30, 1981. If you have any questions do not hesitate to call.

Very truly yours,



Stephen A. Costa, P.E.
Associate Public Health Engineer
Wastewater Management Section

SAC:he

cc: F. Randall
R. Gilbert

REPUBLIC SUMP CONTAMINATION CHRONOLOGY

<u>Date</u>	<u>Sample Number</u>	<u>Location</u>	<u>Results</u>
April 22, 1981	3JJ422	Underpass near Route 110	Methylene Chloride 1900 ppb.
June 15, 1981	2D0615	Near Discharge Pipe	Methylene Chloride 550 ppb. 1,1,2 Trichloroethy 70 ppb.
	3D0615	North side of Sump next to Plane Beacon	Methylene Chloride 550 ppb. 1,1,2 Trichloroethy. 66 ppb.
	4D0615	Middle of West side of sump	Methylene Chloride 490 ppb. 1,1,2 Trichloroethy. 63 ppb.
	5D0615	Southwest corner of sump	Methylene Chloride 910 ppb. 1,1,2 Trichloroethyl 72 ppb.
	July 22, 1981	6D0722	Sump off light tower
5D0722		SD middle of Route 110	Methylene Chloride 150 ppb.
1D0722		SP, SW Bldg. 29S, Republic Aviation	Methylene Chloride 130 ppb.
3D0722		SD, SE Bldg. 29S,	1,1,2 Trichloroethyl 90 ppb.
2D0722		SD, S-Middle Bldg 29S	1,1,2 Trichloroethyl 53 ppb. Methylene Chloride 60 ppb.
4D0722		SD, South Bldg. 42	Clean

COUNTY OF SUFFOLK

TW



DEPARTMENT OF HEALTH SERVICES

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

Fairchild Republic Co.
Conklin Street
Farmingdale, New York 11735

Date 7-27-81
SPDES NO. NY0089621
Lab No. 6-81-138
Field No. 651

Gentlemen:

On 6-17-81 samples of industrial waste were taken from your NW corner of sump located on Route 110, Farmingdale. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES permit or in groundwater effluent standards:


- | | | |
|----|--------|-----|
| 1. | pH - 4 | 6. |
| 2. | | 7. |
| | | 8. |
| 4. | | 9. |
| 5. | | 10. |

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

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

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

Very truly yours,


John H. Finkenberg
Sr. Sanitarian
Environmental Pollution Control
JHF/cc

(SEE REVERSE SIDE FOR STANDARDS)

Applicability. The following effluent standards and/or limitations shall apply to all Class C₁ waters in New York State.

Biological organisms. Coliform and/or pathogenic organisms shall not be discharged in amounts sufficient to render fresh ground waters detrimental to public health, safety or welfare.

Chemical Characteristics

Maximum Allowable Concentration
in mg/l (unless otherwise noted)

<u>Substance</u>	<u>Maximum Allowable Concentration in mg/l (unless otherwise noted)</u>
(1) Aluminum	(1) 2.0
(2) Arsenic	(2) 0.05
(3) Barium	{3} 2.0
(4) Cadmium	{4} 0.02
(5) Chloride	(5) 500
(6) Chromium (Cr) (Hexavalent)	(6) 0.10
(7) Copper	(7) 1.0
(8) Cyanide	(8) 0.40
(9) Fluoride	(9) 3.0
(10) Foaming Agents ¹	(10) 1.0
(11) Iron	(11) 0.6
(12) Lead	(12) 0.05
(13) Manganese ²	(13) 0.6
(14) Mercury	(14) 0.004
(15) Nickel	(15) 2.0
(16) Nitrate (as N)	(16) 20
(17) Oil and Grease	(17) 15
(18) Phenols	(18) 0.002
(19) Selenium	(19) 0.04
(20) Silver	(20) 0.1
(21) Sulfate	(21) 500
(22) Sulfide	(22) 1.0
(23) Zinc	(23) 5.0
(24) pH Range ³	(24) 6.5-8.5
(25) Aldrin, or 1,2,3,4,10,10-hexachloro-1,4,4a,5,8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene	(25) not detectable ⁴
(26) Chlordane, or 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindane.	(26) 0.1 ug/l
(27) DDT, or 2,2-bis-(p-chlorophenyl)-1,1,1-trichloroethane and metabolites	(27) not detectable ⁴
(28) Dieldrin, or 6,7-epoxy aldrin	(28) not detectable ⁴
(29) Endrin, or 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene	(29) not detectable ⁴
(30) Heptachlor, or 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane and metabolites	(30) not detectable ⁴
(31) Lindane and other Hexachlorocyclohexanes or mixed isomers of 1,2,3,3,5,5-hexachloro-cyclohexane	(31) not detectable ⁴

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

July 13, 1981

Mr. George Assmus
Facilities Manager
Republic Aviation - Route 110
Farmingdale, New York 11735

RE: Fairchild Republic STP

Dear Sir:

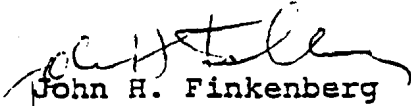
On 5-18-81 grab samples from the above referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	_____ mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids	<u>44</u> mg/l	<u>45 mg/l max. Sus.Solids</u>
Fecal Coliform	<u>< 3</u> mg/l	<u>400/100 ml max fecal colif</u>
pH	<u>6.7</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	_____ mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon (TOC)		<u>69</u> % removal
Influent <u>190</u>	Effluent <u>58</u>	

Effluent values shall not exceed 15% of the influent values (85% removal)

Please note that the sample results have again exceeded permit limitations. This office requires a written response as to what action you are taking to improve the quality of the plant effluent. Discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours,

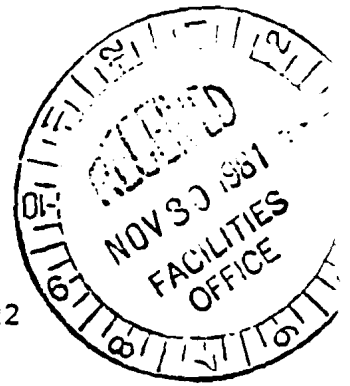

John H. Finkenberg
Senior Sanitarian
Environmental Pollution Control

CC: Mr. Andy Gomes - Operator

COUNTY OF SUFFOLK



T. W.



DEPARTMENT OF HEALTH SERVICES
65 Jetson Lane, Central Islip, N.Y. 11722
WASTEWATER TREATMENT PLANT SAMPLING RESULTS

TO: George Assmus DATE: Nov. 20, 1981

RE: Fairchild Republic

Dear Sir:

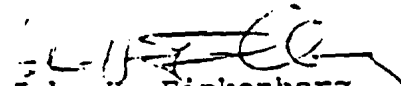
On 9-21-81 grab samples from the above referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	<u> </u> mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids <i>15% = 51.75</i>	<u>50</u> mg/l	<u>45 mg/l max. Sus.Sol.</u>
Fecal Coliform	<u> </u> mg/l	<u>400/100 ml max fecal coliform</u>
pH	<u>6.7</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	<u> </u> mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon (TOC)		<u>52</u> % Removal
Influent	<u>110</u>	Effluent <u>52</u>

Effluent values shall not exceed 15% of influent values (85% removal)

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours,


John H. Finkenberg
Environmental Pollution Control

JHF:cc

cc: File, Central Islip, N.Y. 11722



DEPARTMENT OF HEALTH SERVICES

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

Fairchild Republic Co.
Conklin Street
Farmingdale, New York 11735

Date 7-27-81
SPDES NO. NY0089621
Lab No. 6-81-138
Field No. 651

Gentlemen:

On 6-17-81 samples of industrial waste were taken from your NW corner of sump located on Route 110, Farmingdale. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES permit or in groundwater effluent standards:


- | | | |
|----|--------|-----|
| 1. | pH - 4 | 6. |
| 2. | | 7. |
| 3. | | 8. |
| 4. | | 9. |
| 5. | | 10. |

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) permit for that discharge is also a violation of the N.Y.S.E.C.L. and S.C. Sanitary Code, Art. 11.

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

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

Very truly yours,


John H. Finkenberg
Sr. Sanitarian
Environmental Pollution Control
JEF/cc

(SEE REVERSE SIDE FOR STANDARDS)

Central Islip, N. Y. 11722

(800) 370-1222

FAIR 20512

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES
65 Jetson Lane, Hauppauge, NY 11787
WASTEWATER TREATMENT PLANT SAMPLING RESULTS

TO: G. Asmus

DATE: 11/20/80

RE: Fairchild / Republic

Dear Sir:

On 11/3/80 grab samples from the above referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	_____ mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids	<u>77</u> mg/l	<u>45 mg/l max. Sus.Sol.</u>
Fecal Coliform	<u>> 2400</u> mg/l	<u>400/100 ml max fecal coli</u>
pH	<u>6.9</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	_____ mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon (TOC) _____ % Removal		
Influent	<u>840</u>	Effluent <u>25</u>

Effluent values shall not exceed 15% of influent values (85% removal)

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours
G. J. Watt
Gordon J. Watt
Wastewater Management Unit

GW:he

cc: File, A. Gomes



COUNTY OF SUFFOLK

T.W.



DEPARTMENT OF HEALTH SERVICES
65 Jetson Lane, Hauppauge, NY 11787
WASTEWATER TREATMENT PLANT SAMPLING RESULTS

TO: George Armus DATE: 7/31/80

RE: Fairchild

Dear Sir:

On 7/14/80 grab samples from the above referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	<u> </u> mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids	<u>76</u> mg/l	<u>45⁸⁵ mg/l max. Sus.Sol.</u>
Fecal Coliform	<u> </u> mg/l	<u>400/100 ml max fecal co</u>
pH	<u>7.0</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	<u> </u> mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon (TOC)	<u> </u>	<u>65</u> % Rem
Influent	<u>125</u>	Effluent <u>44</u>

Effluent values shall not exceed 15% of influent values (85% removal)

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any question concerning this matter please call me.

Very truly yours
G. J. Watt
Gordon J. Watt
Wastewater Management Unit

GW:he

cc: File, A. Gomes

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES
65 Jetson Lane, Hauppauge, NY 11787
WASTEWATER TREATMENT PLANT SAMPLING RESULTS

TO: George Assmus DATE: 4-30-80
RE: FAIRFIELD Republic

Dear Sir:

On 4/14/80 grab samples from the above referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	<u> </u> mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids	<u>64</u> mg/l	<u>85 mg/l max. Sus.Sol.</u>
Fecal Coliform	<u>>2400</u> mg/l	<u>400/100 ml max fecal co</u>
pH	<u>7.0</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	<u> </u> mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon (TOC)	<u> </u>	<u>73</u> % Rem.
Influent	<u>95</u>	Effluent <u>26</u>

Effluent values shall not exceed 15% of influent values (~~25%~~ removal)
40-60

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours

G. J. Watt
Gordon J. Watt
Wastewater Management Unit

GW:he

cc: File, A. Gomez

COUNTY OF SUFFOLK



T.W.

DEPARTMENT OF HEALTH SERVICES
65 Jetson Lane, Hauppauge, NY 11787
WASTEWATER TREATMENT PLANT SAMPLING RESULTS

TO: George Assmus DATE: 3/25/80
RE: Fairchild Republic

Dear Sir:

On 3/17/80 grab samples from the above-referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this Department revealed the following results:

		New York State Maximum Effluent Limitations
Biochemical Oxygen Demand (BOD)	_____ mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids	<u>208</u> mg/l	<u>45 mg/l max. Sus.Sol.</u>
Fecal Coliform	<u>> 2400</u> mg/l	<u>400/100 ml max fecal c</u>
pH	<u>7.0</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	_____ mg/l	<u>10 mg/l Total Nitrogen</u>
Removal based on Total Organic Carbon (TOC)		<u>90</u> % Re
Influent	<u>1460</u>	Effluent <u>150</u>

Effluent values shall not exceed 15% of influent values (85% removal)

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any question concerning this matter please call me.

Very truly yours,
Gordon C. Watt
Gordon C. Watt
Wastewater Management Unit

Copy to: T.W.

GW:ne
cc: File, A. Gomes

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES
65 Jetson Lane, Hauppauge, NY 11787
WASTEWATER TREATMENT PLANT SAMPLING RESULTS

TO: George Assmus DATE: 12/26/80
RE: Fairchild / Republic

Dear Sir:

During 1980, 4 grab samples from the above referenced wastewater treatment plant were collected by a representative of this office. The laboratory analysis performed by this department revealed the following average results for the year:

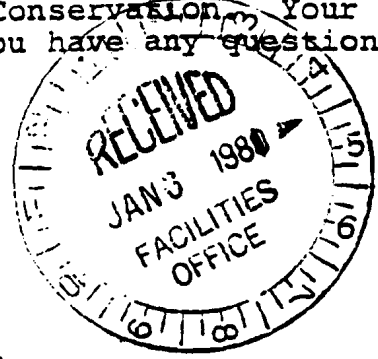
New York State
Maximum Effluent
Limitations

Biochemical Oxygen Demand (BOD)	<u> </u> mg/l	<u>45 mg/l max. BOD</u>
Suspended Solids	<u>105</u> mg/l	<u>45 mg/l max. Sus. Solids</u>
Fecal Coliform-exceeded limits on	<u>4</u> samples	<u>400/100 ml max. fecal col</u>
pH	<u>7</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	<u> </u> mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon (TOC)	<u> </u>	<u>80</u> % Remo
Influent	<u>625 mg/l</u>	Effluent <u>74</u>

Effluent values shall not exceed 15% of influent values (85% removal)

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours,
G. J. Watt
Gordon J. Watt
Wastewater Management Unit



GJW:he cc: File, A. Gomez

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date Aug. 22, 1979

Fairchild Republic Co.
Conklin St.
Farmingdale, N.Y. 11735

Gentlemen:


On July 24, 1979 samples of your industrial waste were taken from your discharge 001. Upon analysis, the following parameters were found to be unsatisfactory:

- | | |
|-------------------|-----|
| 1. MBAS - 54 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

- | | |
|------------------|-----|
| 1. MBAS - 1 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

You should be aware that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please see that they are corrected as soon as possible. If you have any questions or need any assistance, please do not hesitate to contact this office.


Stephen A. Costa, P.E.
Industrial Waste and Hazardous
Materials Control Section

(GW)

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date Aug. 22, 1979

Fairchild Republic Co.
Conklin St.
Farmingdale, N.Y. 11735

Gentlemen:

On Aug. 7, 1979 samples of your industrial waste were taken from your discharge 001. Upon analysis, the following parameters were found to be unsatisfactory:

- | | |
|-------------|-----|
| 1. pH - 5.2 | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

The acceptable limits on each of these parameters according to your State Pollutant Discharge Elimination System (SPDES) permit are as follows:

- | | |
|-------------------|-----|
| 1. pH - 6.5 - 8.5 | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

You should be aware that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please see that they are corrected as soon as possible. If you have any questions or need any assistance, please do not hesitate to contact this office.

Stephen A. Costa
Stephen A. Costa, P.E.
Industrial Waste and Hazardous
Materials Control Section

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date Aug. 22, 1979

Fairchild Republic Co.
Conklin St.
Farmingdale, N.Y. 11735

Gentlemen:


On July 24, 1979 samples of your industrial waste were taken from your discharge 003. Upon analysis, the following parameters were found to be unsatisfactory:

- | | |
|--------------------|-----|
| 1. MBAS - 140 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

- | | |
|------------------|-----|
| 1. MBAS - 1 mg/l | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

You should be aware that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please see that they are corrected as soon as possible. If you have any questions or need any assistance, please do not hesitate to contact this office.


Stephen A. Costa, P.E.
Industrial Waste and Hazardous
Materials Control Section

(GW)

COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

Aug. 6, 1979

Fairchild Republic Co.
Conklin St.
Farmingdale, N.Y. 11735

Att'n: George Assmus

Gentlemen:

New York State Department of Environmental Conservation has informed me that you reported high levels of the following parameters in your discharge from your waste treatment plant:

Nitrogen - 77 mg/l
Fluoride - 8.8 mg/l
Aluminum - 16 mg/l
Total Chrome - 33 mg/l
Iron - 1.9 mg/l

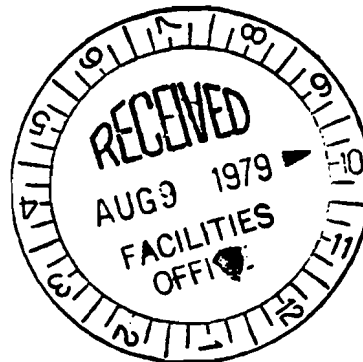
These are violations, as your maximum limitations are 10 mg/l, 3 mg/l, 2 mg/l, 2 mg/l and .6 mg/l respectively.

Please explain in writing by Aug. 20, 1979 the reasons for these extremely high levels during this quarter. Please also send a copy of that letter to Mr. Ted Snyder, New York State Department of Environmental Conservation, State University at Stony Brook, Building 40, Stony Brook, N.Y. 11794.

Thank you very much for your kind attention. If you have any questions please do not hesitate to contact this office.

Very truly yours,

Stephen A. Costa, P.E.
Sr. San. Engineer
Industrial Waste and Hazardous
Materials Control Section
SAC/rt
cc: Ted Snyder



COUNTY OF SUFFOLK



DEPARTMENT OF HEALTH SERVICES

Aug. 6, 1979.

St. Albans,
I will respond
this letter, but again
seems to highlight a
problem. T Webb
8/8/79

Fairchild Republic Co.
Conklin St.
Farmingdale, N.Y. 11735

Att'n: George Assmus

Gentlemen:

New York State Department of Environmental Conservation has informed me that you reported high levels of the following parameters in your discharge from your waste treatment plant:

- Nitrogen - 77 mg/l
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- Aluminum - 16 mg/l
- Total Chrome - 33 mg/l
- Iron - 1.9 mg/l

These are violations, as your maximum limitations are 10 mg/l, 3 mg/l, 2 mg/l, 2 mg/l and .6 mg/l respectively.

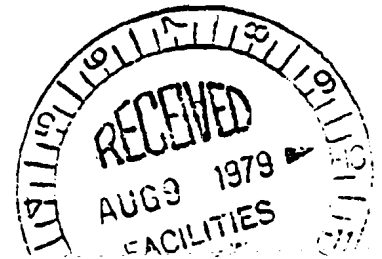
Please explain in writing by Aug. 20, 1979 the reasons for these extremely high levels during this quarter. Please also send a copy of that letter to Mr. Ted Snyder, New York State Department of Environmental Conservation, State University at Stony Brook, Building 40, Stony Brook, N.Y. 11794.

Thank you very much for your kind attention. If you have any questions please do not hesitate to contact this office.

Very truly yours,

Stephen A Costa

Stephen A. Costa, P.E.
Sr. San. Engineer
Industrial Waste and Hazardous
Materials Control Section



John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

WASTEWATER TREATMENT PLANT SAMPLING RESULTS

Date 5-1-78

Re: Republic - Fairhill

Gentlemen:

On 4-18-78 samples from the above referenced treatment plant were collected by a representative of this office. The laboratory analyses of the samples revealed the following results:

		<u>New York State Permit Requirements</u>
Biochemical Oxygen Demand (BOD)	<u> </u> mg/l	30 mg/l avg- <u>45 mg/l max. B.O.D.</u>
Suspended Solids	<u>6.0</u> mg/l	30 mg/l avg- <u>45 mg/l max. Sus.Sol.</u>
Fecal Coliform	<u>3</u> /100 ml	200/100/ml - 400 max. <u>Fecal Coliform</u>
pH	<u>7.3</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	<u> </u> mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon Samples (T.O.C.)		<u>82</u> % Removal

Effluent values shall not exceed 15% of influent values (85% removal).

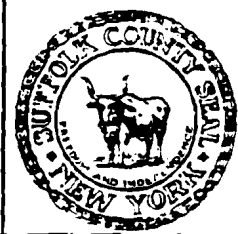
Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0303, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours,

Gordon J. Watt
Gordon J. Watt
Water Pollution Control Section
GJW/rt

John M. Flynn, P.E.
Commissioner

TW



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway Hauppauge N. Y. 11787
(516) 234-2622

WASTEWATER TREATMENT PLANT SAMPLING RESULTS

Date 2/22/78
Re: Fairchild/Republic
Gentlemen:

On 2-21-78 samples from the above referenced treatment plant were collected by a representative of this office. The laboratory analyses of the samples revealed the following results:

		<u>New York State Permit Requirements</u>
Biochemical Oxygen Demand (BOD)	_____ mg/l	30 mg/l avg- <u>45 mg/l max. B.O.D.</u>
Suspended Solids	<u>112</u> mg/l	30 mg/l avg- <u>45 mg/l max. Sus.Sol.</u>
Fecal Coliform	<u>> 2400</u> /100 ml	200/100/ml - 400 max. <u>Fecal Coliform</u>
pH	<u>7</u>	<u>6.5 - 8.5 pH</u>
Total Nitrogen	_____ mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon Samples (T.O.C.)		<u>26</u> % Removal

Effluent values shall not exceed 15% of influent values (85% removal).

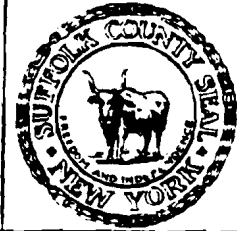
Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated.

If you have any questions concerning this matter please call me.

Very truly yours,
Gordon J. Watt
Gordon J. Watt
Water Pollution Control Section
GJW/rt

*POOR - contact
your plant operator
G. Watt*

John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

WASTEWATER TREATMENT PLANT SAMPLING RESULTS

Date 9/16/77

Re: Fairchild - Republic

Gentlemen:

On 9/6/77 samples from the above referenced treatment plant were collected by a representative of this office. The laboratory analyses of the samples revealed the following results:

		<u>New York State Permit Requirements</u>
Biochemical Oxygen Demand (BOD)	_____ mg/l	30 mg/l avg- 45 mg/l max. B.O.D.
Suspended Solids	<u>88</u> mg/l	30 mg/l avg- 45 mg/l max. Sus.Sol.
Fecal Coliform	<u>460</u> /100 ml	200/100/ml - 400 max. <u>Fecal Coliform</u>
pH	<u>7.8</u>	6.5 - 8.5 pH
Total Nitrogen	_____ mg/l	<u>10 mg/l Total Nitrogen</u>
% removal based on Total Organic Carbon Samples (T.O.C.)		<u>0</u> % Removal

Effluent values shall not exceed 15% of influent values (85% removal).

Please note that discharging an effluent in excess of your permit conditions is a violation of New York State Environmental Conservation Law Section 17-0803, 17-0807.4. Please notify your plant operator immediately and request that a review of the unit processes be made. Failure to correct plant deficiencies as soon as possible may result in enforcement action by New York State Department of Environmental Conservation. Your cooperation in this matter will be appreciated. If you have any questions concerning this matter please call me.

Very truly yours,

Gordon J. Watt
Water Pollution Control Section
GJW/rt

John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date June 1, 1977

Fairchild Republic Aviation
Rt. 110
Farmingdale, N.Y. 11735

Gentlemen:

On Jan. 31, 1977 samples of your industrial waste were taken from your sampling cock. Upon analysis, the following parameters were found to be unsatisfactory:

- | | |
|----------------------------|-----|
| 1. pH - 12.4 | 6. |
| 2. Fluoride - 16 mg/l | 7. |
| 3. Total Chrome - 4.1 mg/l | 8. |
| 4. | 9. |
| 5. | 10. |

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

- | | |
|----------------------------|-----|
| 1. pH - 6.5 - 8.5 | 6. |
| 2. Fluoride - 3.0 mg/l | 7. |
| 3. Total Chrome - 2.0 mg/l | 8. |
| 4. | 9. |
| 5. | 10. |

You should be aware that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law. Please see that they are corrected as soon as possible. If you have any questions or need any assistance, please do not hesitate to contact this office.

Very truly yours,

Roy Gilbert
Water Pollution Control Section
RG/rt

CC: TED SNYDER - NYSDEC

John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date June 1, 1977

Fairchild Republic Aviation
Rt. 110
Farmingdale, N.Y. 11735

Gentlemen:

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- | | |
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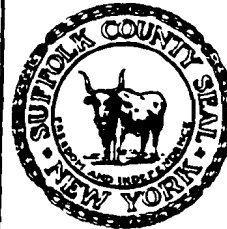
Very truly yours,


Roy Gilbert
Water Pollution Control Section
RG/rt

CC: TED SNYDER - NYSDEC

FAIR 20514

John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

Dec. 3, 1975

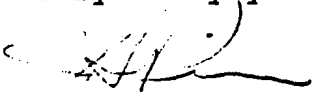
Mr. R. Gracey
Fairchild Republic Co.
Conklin St.
Farmingdale, N.Y. 11735

Dear Mr. Gracey:

Enclosed are the copies of all of the sample results that we have from your industrial facility from 1971.

Dennis Moran of New York State Department of Environmental Conservation is sending you the required State operating summary report sheets both for your sewage treatment plant and for the industrial waste treatment plant.

Very truly yours,


James H. Pim, P.E.
Chief, Water Pollution Control Section
JHP/rt
Encl.

FIELD

LABORATORY

FIELD NO. 101

LAB NO. 7-75-253

NAME L. Caputo
NAME, NOT INITIALS

TYPE SAMPLE Dnd

DATE COL. 7-18-75

DATE REC'VD. 7/21

TIME COL. 10:30am

TIME REC'VD. 11:15

DATE COMPLETED 7/24 Spectrum

SUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

NAME OR FIRM Republic Association

ADDRESS OR LOCATION New Highway, Farmingdale

POINT OF COLLECTION Sample Col.

REMARKS/INSTRUCTIONS _____

TEST	RESULT	TEST	RESULT <small>mg./liter</small>	TEST	RESULT <small>mg./liter</small>
00095 CONDUCT	umho	00618 NITRATE-N		01042 COPPER	
X 00400 pH	7.0	00613 NITRITE-N		01045 IRON	
TEST	RESULT <small>m.g./liter</small>	00608 AMMONIA-N		01055 MANGANESE	
00411 ph. ALKALINITY		00625 TKN		X 01034 CHROMIUM	< 0.03
00410 T. ALKALINITY		00671 O-PO ₄ -P		01067 NICKEL	
00940 CHLORIDE				01092 ZINC	
00950 FLUORIDE				00927 MAGNESIUM	
00720 CYANIDE		00500 TOT. SOLIDS		00916 CALCIUM	
		70299 SUS. SOLIDS		01051 LEAD	
00945 SULFATE		70300 DISS. SOLIDS		01027 CADMIUM	
38260 MBAS		00310 B.O.D.		01077 SILVER	
X 00340 C.O.D.	32			00930 SODIUM	
00681 T.O.C.		00619 FIELD NITRATE		00935 POTASSIUM	
		00941 FIELD Cl ⁻		01007 BARIUM	
		00299 FIELD D.O.		X <u>Hex Cr⁺⁺</u>	< 0.03
		00010 FIELD TEMP			
		00401 FIELD pH			
		00096 FIELD COND.	umho		

FIELD

LABORATORY

FIELD NO. 100LAB NO. 7-75-252BY L. Cozziteno
NAME, NOT INITIALSTYPE SAMPLE SmplDATE COL. 7-18-75DATE REC'VD. 7/21TIME COL. 10:30amTIME REC'VD. 11:15DATE COMPLETED 7/24 8:00amSUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTENAME OR FIRM Republic AviationADDRESS OR LOCATION New Highway FarmingdalePOINT OF COLLECTION Sump

REMARKS/INSTRUCTIONS _____

	TEST	RESULT		TEST	RESULT	$\frac{\text{mg.}}{\text{liter}}$		TEST	RESULT	$\frac{\text{mg.}}{\text{liter}}$
	00095 CONDUCT	umho		00618 NITRATE-N				01042 COPPER		
X	00400 pH	7.0		00613 NITRITE-N				01045 IRON		
	TEST	RESULT		00608 AMMONIA-N				01055 MANGANESE		
	00411 ph. ALKALINITY			00625 TKN			X	01034 CHROMIUM	20.03	
	00410 T. ALKALINITY			00671 O-PO ₄ -P				01067 NICKEL		
	00940 CHLORIDE							01092 ZINC		
	00950 FLUORIDE							00927 MAGNESIUM		
	00720 CYANIDE			00500 TOT. SOLIDS				00916 CALCIUM		
				70299 SUS. SOLIDS				01051 LEAD		
	00945 SULFATE			70300 DISS. SOLIDS				01027 CADMIUM		
	38260 MBAS			00310 B.O.D.				01077 SILVER		
X	00340 C.O.D.	11.						00930 SODIUM		
	00681 T.O.C.			00619 FIELD NITRATE				00935 POTASSIUM		
				00941 FIELD Cl ⁻				01007 BARIUM		
				00299 FIELD D.O.			✓	Hex Cr ⁶⁺	20.03	
				00010 FIELD TEMP						
				00401 FIELD pH						
				00096 FIELD COND.		umho				

NEW YORK STATE DEPARTMENT OF HEALTH
 DIVISION OF LABORATORIES AND RESEARCH
 ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION
 (PAGE 1 OF 1)

LAB ACCESSION NO: 00263 YR/MO/DAY/HR SAMPLE REC'D: 75/06/16/15

REPORTING LAB: 52 CENTRAL AVE. LAB

PROGRAM: INDUSTRIAL WASTES

STATION: 52 (L) #1:

DRAINAGE BASIN: SUFFOLK COUNTY: SUFFOLK

COORDINATES: DEP. 118 22, TEG. "N"

CONNECTION: FAIRCHILD REPUBLIC SUMP W. OF BROADHOLLOW RD
 BROADHOLLOW FARMINGDALE

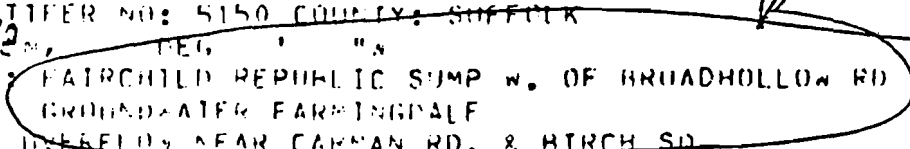
EXACT SAMPLING POINT: SUMP NEARLY NEAR CARMAN RD. & BIRCH SQ

TYPE OF SAMPLE: 32 MTSE (L) WASTE

YR/DAY/HR OF SAMPLING: FROM 00/00 TO 06/13/16

REPORT SENT TO: (0) (1) RD (2) LPHE (1) LHO (0) FED (0) CHEM (1)

File



PARAMETER	UNIT	RESULT	NOTATION
006501	CHEMICAL OXYGEN DEMAND	MG/L	5.0 LT
001900	PH (LABORATORY)		6.5
009301	ARSENIC	MG/L	0.02 LT
010601	SILVER	MG/L	0.02 LT
010801	TITANIUM	MG/L	1. LT
009701	CADMIUM	MG/L	0.02 LT
009801	TOTAL CHROMIUM	MG/L	0.3
009901	COPPER	MG/L	0.05 LT
010101	LEAD	MG/L	0.01 LT
010301	MERCURY	MG/L	0.00
010901	ZINC	MG/L	0.1

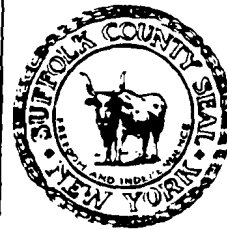
75 SEP 0 PM 12:00

NEW YORK STATE DEPARTMENT OF HEALTH
 DIVISION OF LABORATORIES AND RESEARCH

DATE COMPLETED: 8/27/75

DIR. ENV. HLTH, SUFFOLK COUNTY HEALTH DEPT
 SUFFOLK COUNTY HEALTH DEPT. DENNISON BLDG
 VETERANS MEMORIAL HIGHWAY
 HAUPPAUGE, N.Y. 11787

John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date Oct. 15, 1974

Republic Aviation
Conklin St.
Farmingdale, N.Y. 11735

Gentlemen:

On Sept 10, 1974 samples of your industrial waste were taken from your sample cock after treatment. Upon analysis, the following parameters were found to be unsatisfactory:

- | | |
|----------------------------|-----|
| 1. pH - 10.2 | 6. |
| 2. Total Chrome - 2.3 mg/l | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

- | | |
|----------------------------|-----|
| 1. pH - 6.5 - 8.5 | 6. |
| 2. Total Chrome - 1.0 mg/l | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

Very truly yours,

Roy Gilbert

Roy Gilbert
Water Pollution Control Section
RG/rt

CC: P. Barbato - NYSDEC

JOHN M. FLYNN, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date Oct 15, 1974

Republic Aviation
Conklin St.
Farmingdale, N.Y. 11735

Gentlemen:

On Sept 10, 1974 samples of your industrial waste were taken from your sample cock after treatment. Upon analysis, the following parameters were found to be unsatisfactory:

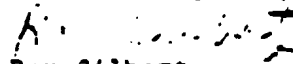
- | | |
|----------------------------|-----|
| 1. pH - 10.2 | 6. |
| 2. Total Chrome - 2.3 mg/l | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

- | | |
|----------------------------|-----|
| 1. pH - 6.5 - 8.5 | 6. |
| 2. Total Chrome - 1.0 mg/l | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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

Very truly yours,


Roy Gilbert
Water Pollution Control Section
RG/rt

CC: P. Barbato - NYSDEC

FAIR 20515

FIELD

LABORATORY

FIELD NO. 103

LAB NO. 9-74-97

NAME, NOT INITIALS Louis J. Caprianni

TYPE SAMPLE Ind

DATE COL. 9/10/74

DATE REC'VD. 9/10

TIME COL. 9:45 AM

TIME REC'VD. _____

DATE COMPLETED 9/13 8:00 PM

SUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

NAME OR FIRM Republic Aviation

ADDRESS OR LOCATION pt 110 FARMINGDALE Conklin St

POINT OF COLLECTION AFTER TREATMENT SAMPLING C.A.E.

REMARKS/INSTRUCTIONS _____

TEST	RESULT	TEST	RESULT <small>mg. / liter</small>	TEST	RESULT <small>mg. / liter</small>
00095 CONDUCT	umho	00618 NITRATE-N		01042 COPPER	
00400 pH	10.2	00613 NITRITE-N		01045 IRON	
TEST	RESULT <small>mg. / liter</small>	00608 AMMONIA-N		01055 MANGANESE	
00411 ph. ALKALINITY		00625 TKN		01034 CHROMIUM	2.3
00410 T. ALKALINITY		00671 O-PO ₄ -P		01067 NICKEL	
00940 CHLORIDE				01092 ZINC	
00950 FLUORIDE				00927 MAGNESIUM	
00720 CYANIDE		00500 TOT. SOLIDS		00916 CALCIUM	
		70299 SUS. SOLIDS		01051 LEAD	
00945 SULFATE		70300 DISS. SOLIDS		01027 CADMIUM	
38260 MBAS		00310 B.O.D.		01077 SILVER	
00340 C.O.D.				00930 SODIUM	
00681 T.O.C.		00619 FIELD NITRATE		00935 POTASSIUM	
		00941 FIELD Cl ⁻		01007 BARIUM	
		00299 FIELD D.O.			
		00010 FIELD TEMP			
		00401 FIELD pH			
		00096 FIELD COND.	umho		

FIELD

LABORATORY

FIELD NO. 104

LAB NO. 9-74-98

Louis J. Caporaso
NAME, NOT INITIALS

TYPE SAMPLE Ind.

DATE COL. 9/10/77

DATE REC'VD. 9/10

TIME COL. 9:15 AM

TIME REC'VD. _____

DATE COMPLETED 9/13 Squin

SUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

NAME OR FIRM Republic Auction

ADDRESS OR LOCATION Route 6115 Farmington

POINT OF COLLECTION Sump

REMARKS/INSTRUCTIONS _____

TEST	RESULT	TEST	RESULT <small>mg. liter</small>	TEST	RESULT <small>mg. liter</small>
00095 CONDUCT	umho	00618 NITRATE-N		01042 COPPER	
00400 pH	7.0	00613 NITRITE-N		01045 IRON	
TEST	RESULT <small>m.g. liter</small>	00608 AMMONIA-N		01055 MANGANESE	
00411 ph. ALKALINITY		00625 TKN		01034 CHROMIUM	< 0.05
00410 T. ALKALINITY		00671 O-PO ₄ -P		01067 NICKEL	
00940 CHLORIDE				01092 ZINC	
00950 FLUORIDE				00927 MAGNESIUM	
00720 CYANIDE		00500 TOT. SOLIDS		00916 CALCIUM	
		70299 SUS. SOLIDS		01051 LEAD	
00945 SULFATE		70300 DISS. SOLIDS		01027 CADMIUM	
38260 MBAS		00310 B.O.D.		01077 SILVER	
00340 C.O.D.				00930 SODIUM	
00681 T.O.C.		00619 FIELD NITRATE		00935 POTASSIUM	
		00941 FIELD Cl ⁻		01007 BARIUM	
		00299 FIELD D.O.			
		00010 FIELD TEMP			
		00401 FIELD pH			
		00096 FIELD COND.	umho		

FILED

LABORATORY

FIELD NO. 103

LAB NO. 5-74-149

COL. BY Louis S. Caperton
NAME, NOT INITIALS

TYPE SAMPLE Indust.

COL. 5/16/74

DATE REC'VD. 5/16

TIME COL. 10:15 AM

TIME REC'VD. 12

DATE COMPLETED 5/17/74 SQM

SUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

NAME OR FIRM Republic Aviation

ADDRESS OR LOCATION CONCORD ST, FARMINGDALE

POINT OF COLLECTION SUMP

REMARKS/INSTRUCTIONS

TEST	RESULT	TEST	RESULT	TEST	RESULT
00095 CONDUCT	umho	00618 NITRATE-N		01042 COPPER	
00400 pH	7.2	00613 NITRITE-N		01045 IRON	
TEST	RESULT	00608 AMMONIA-N		01055 MANGANESE	
00411 ph. ALKALINITY		00625 TKN		01034 CHROMIUM	< 0.03
00410 T. ALKALINITY		00671 O-PO ₄ -P		01067 NICKEL	
00940 CHLORIDE				01092 ZINC	
00950 FLUORIDE				00927 MAGNESIUM	
00720 CYANIDE		00500 TOT. SOLIDS		00916 CALCIUM	
		70299 SUS. SOLIDS		01051 LEAD	
00945 SULFATE		70300 DISS. SOLIDS		01027 CADMIUM	
38260 MBAS		00310 B.O.D.		01077 SILVER	
00340 C.O.D.				00930 SODIUM	
00681 T.O.C.		00619 FIELD NITRATE		00935 POTASSIUM	
		00941 FIELD cl ⁻		01007 BARIUM	
		00299 FIELD D.O.			
		00010 FIELD TEMP			
		00401 FIELD pH			
		00096 FIELD COND.	umho		

FIELD

LABORATORY

FIELD NO. 104

LAB NO. 5-74-150

COL. BY Louis J. Copertino
NAME, NOT INITIALS

TYPE SAMPLE Indust

DATE COL. 5/16/74

DATE REC'VD. 5/16

TIME COL. 10:20 AM

TIME REC'VD. 12

DATE COMPLETED 5/17/74 Squinn

SUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

NAME OR FIRM Republic Aviation

ADDRESS OR LOCATION CONNELLY ST. FARMINGDALE

POINT OF COLLECTION Gun Butts Area

REMARKS/INSTRUCTIONS _____

TEST	RESULT	TEST	RESULT ^{mg.} / _{liter}	TEST	RESULT ^{mg.} / _{liter}
00095 CONDUCT	umho	00618 NITRATE-N		01042 COPPER	
00400 pH	7.4	00613 NITRITE-N		01045 IRON	
TEST	RESULT ^{m.g.} / _{liter}	00608 AMMONIA-N		01055 MANGANESE	
00411 ph. ALKALINITY		00625 TKN		01034 CHROMIUM	< 0.03
00410 T. ALKALINITY		00671 O-PO ₄ -P		01067 NICKEL	
00940 CHLORIDE				01092 ZINC	
00950 FLUORIDE				00927 MAGNESIUM	
00720 CYANIDE		00500 TOT. SOLIDS		00916 CALCIUM	
		70299 SUS. SOLIDS		01051 LEAD	
00945 SULFATE		70300 DISS. SOLIDS		01027 CADMIUM	
38260 MBAS		00310 B.O.D.		01077 SILVER	
00340 C.O.D.				00930 SODIUM	
00681 T.O.C.		00619 FIELD NITRATE		00935 POTASSIUM	
		00941 FIELD Cl ⁻		01007 BARIUM	
		00299 FIELD D.O.			
		00010 FIELD TEMP			
		00401 FIELD pH			
		00096 FIELD COND.	umho		

FIELD

LABORATORY

*Account to
4/15/74*

LD NO. 101

LAB NO. 4/74/110

L. BY Louis J. Cyron
NAME, NOT INITIALS

TYPE SAMPLE _____

TE COL. 4/15/74

DATE REC'VD. 4/15/74

SE COL. 10:00 AM

TIME REC'VD. 12:30 PM

DATE COMPLETED 4/19/74 S. Quinn

SUFFOLK COUNTY ENVIRONMENTAL CONTROL LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

NAME OR FIRM Republic Aviation

DRESS OR LOCATION RT 110 Farmington

POINT OF COLLECTION Moore Swamp

MARKS/INSTRUCTIONS _____

TEST	RESULT	TEST	RESULT $\frac{mg.}{liter}$	TEST	RESULT $\frac{mg.}{liter}$
00095 CONDUCT	umho	00618 NITRATE-N		01042 COPPER	
00400 pH	7.7	00613 NITRITE-N		01045 IRON	
TEST	RESULT $\frac{m.g.}{liter}$	00608 AMMONIA-N		G1055 MANGANESE	
00411 ph. ALKALINITY		00625 TKN		01034 CHROMIUM	0.8
00410 T. ALKALINITY		00671 O-PO ₄ -P		01067 NICKEL	
00940 CHLORIDE				01092 ZINC	
00950 FLUORIDE				00927 MAGNESIUM	
00720 CYANIDE		00500 TOT. SOLIDS		00916 CALCIUM	
		70299 SUS. SOLIDS		01051 LEAD	
00945 SULFATE		70300 DISS. SOLIDS		01027 CADMIUM	
33260 NIBAS		00310 B.O.D.		01077 SILVER	
00340 C.O.D.				00930 SODIUM	
00681 T.O.C.		00619 FIELD NITRATE		00935 POTASSIUM	
		00941 FIELD Cl ⁻		01007 BARIUM	
		00299 FIELD D.O.			
		00010 FIELD TEMP			
		00401 FIELD pH			
		00096 FIELD COND.	um:ho		

Lab. No. 2-74-2
 Field No. 300501
 Time 10:30 am 2/19/74
 Coll. By James J. Caperton
 (Name, not initials)
 Examined By _____

Date Received in Lab. 2/19/74
 Stream _____
 Ground Water _____
 Marine Water _____
 Waste (specify) Industrial
 Date Completed 2/21/74 J. Quinn

Suffolk County Department of Environmental Control
BACTERIOLOGICAL AND CHEMICAL EXAMINATIONS OF WATER

Name Variable Location Owner or District _____

Location Corkin St. Farmville Weather _____

Special Instructions _____

Sample Taken from pump

Number (2-6)		Rec. Code (7-9)	Date (11-16)						
COL. NO.	TEST	RESULT	COL. NO.	TEST	RESULT	COL. NO.	TEST	CODE	RESULT
32	<input type="checkbox"/> R(1) <input type="checkbox"/> T(2) <input type="checkbox"/> Exp.(3)	Other	17-	Nitrate	---	17-			---
			20	-N	---	22	<i>Cr⁶⁺</i>	---	---
33-			21-			23-			
34	Lab. I.D.	---	23	BOD	---	28	<i>Total Chlorine</i>		<i>1.1</i>
35-	APC 35°		24-	Chlor-		29-			
38	24 hrs.	---	29	ides	---	34			---
39-	Coli		30-	Total		35-			
41	Mpn/100ml	---	32	Hardness	---	40			---
42-			33-	Total		41-			
43	Color	---	35	Alk.	---	46			---
44-			36-			47-			
45	Turbidity	---	38	PH	---	52			---
46-			39-	Total		53-			
47	Odor-Cold	---	43	Solids	---	58			---
48-			44-	Specific		59-			
49	Odor-Hot	---	48	Cond.	---	64			---
50-	Total		49-	Detergents		65-			
54	Iron	---	51	MBAS	---	70			---
55-			52-	Dissolved		GENERAL ANALYSIS CODES 01 Copper 13 Potassium 02 Zinc 14 F-Coli 03 Lead 15 Magnesium 04 Cadmium 16 Kjeld-N 05 Sulphate 06 Acidity 07 Ferrous 08 Nickel 09 COD 10 Sodium 11 Mercury 12 Cl ₂ Res.			
57	Manganese	---	54	Oxygen	---				
58-	Free CO ₂		55-	Hex-					
60	(Nomograph)	---	57	Chromate	---				
61-			58-	CA					
63	Fluoride	---	60	Hardness	---				
64-	Ammonia		61-	Temp.					
68	-N	---	63	(Field)F	---				
69-	Albuminoid		64-	Phenol					
72	-N	---	66	Alk.	---				
73-	Nitrite		67-	Total					
76	-N	---	70	Phosphate	---				
			71-	Ortho					
			74	Phosphate	---				

Lab. No. 11-73-12

Field No. SCDEC 126

Time 10 30 AM

Coll. By Louis V. Coxam

(Name, not initials)

Examined By JD

DATE RECEIVED 11/15/73

Date Received in Lab. 11/5

Stream _____

Ground Water _____

Marine Water _____

Waste (specify) INDUSTRIAL

Date Completed 11/7

Suffolk County Department of Environmental Control

BACTERIOLOGICAL AND CHEMICAL EXAMINATIONS OF WATER

Name REPUBLIC ACQUEDUCT Owner or District _____

Location CORRAL ST. FAIRHAVEN Weather _____

Special Instructions _____

Number (2-6)	Rec. Code (7-9)	Date (11-16)	COL. NO.	TEST	RESULT	COL. NO.	TEST	CODE	RESULT
32	R(1) T(2) Exp.(3)		17	Nitrate		17	TOTAL		0.8
	Other		20	-N		22	CHLOR		
33-			21-			23-			
34	Lab. I.D.		23	BOD		28			
35-	APC 35°		24-	Chlor-		29-			
38	24 hrs.		29	ides		34			
39-	Coli		30-	Total		35-			
41	Mpn/100ml		32	Hardness		40			
42-			33-	Total		41-			
43	Color		35	Alk.		46			
44-			36-			47-			
45	Turbidity		38	PH	7.3	52			
46-			39-	Total		53-			
47	Odor-Cold		43	Solids		58			
48-			44-	Specific		59-			
49	Odor-Hot		48	Cond.		64			
50-	Total		49-	Detergents		65-			
54	Iron		51	MBAS		70			
55-			52-	Dissolved		GENERAL ANALYSIS CODES 01 Copper 13 Potassium 02 Zinc 14 F-Coli 03 Lead 15 Magnesium 04 Cadmium 16 Kjeld-N 05 Sulphate 06 Acidity 07 Ferrous 08 Nickel 09 COD 10 Sodium 11 Mercury 12 Cl ₂ Res.			
57	Manganese		54	Oxygen					
58-	Free CO ₂		55-	Hex-					
60	(Nomograph)		57	Chromate					
61-			58-	CA					
63	Fluoride		60	Hardness					
64-	Ammonia		61-	Temp.					
68	-N		63	(Field)F					
69-	Albuminoid		64-	Phenol					
72	-N		66	Alk.					
73-	Nitrite		67-	Total					
76	-N		70	Phosphate					
			71-	Ortho					
			74	Phosphate					

John M. Flynn, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

NOTIFICATION OF UNSATISFACTORY INDUSTRIAL WASTE SAMPLING

Date Dec. 4, 1972

Republic Aviation
Conklin St.
Farmingdale, N.Y. 11735

Gentlemen:

On Nov. 13, 1972 samples of your industrial waste were taken. The following parameters were found to be unsatisfactory:

- | | | |
|----|----------|-----|
| 1. | pH - 2.6 | 6. |
| 2. | | 7. |
| 3. | | 8. |
| 4. | | 9. |
| 5. | | 10. |

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

- | | | |
|----|----------------|-----|
| 1. | pH - 6.5 - 8.5 | 6. |
| 2. | | 7. |
| 3. | | 8. |
| 4. | | 9. |
| 5. | | 10. |

Please see that these conditions are corrected as soon as possible. Your plant will be reinspected and resampled in about 10 days. If you have any questions or need any assistance please do not hesitate to contact this office.

Very truly yours,

Richard E. Strzepek
Richard E. Strzepek
Asst. San. Engineer
Enforcement Section
RES/RG/rt

JOHN W. STUBBS, P.E.
Commissioner



SUFFOLK COUNTY
DEPARTMENT OF ENVIRONMENTAL CONTROL

1324 Motor Parkway

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

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- | | |
|-------------|-----|
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| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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- | | |
|-------------------|-----|
| 1. pH - 6.5 - 8.5 | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

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Very truly yours,

Richard E. Strzepek
Richard E. Strzepek
Asst. San. Engineer
Enforcement Section
RES/RG/rt

FAIR 20516

LAB No. 1172079
 FIELD No. 500047
 DATE: 11/13/72
 TIME: 12:00 PM
 COL. BY: L. J. P. [Signature]
 (NAME, NOT INITIALS)

Date Received in Lab. 11/13/72
 PUBLIC WATER _____
 PRIVATE WATER _____
 OTHER _____
 DATE COMPLETED _____
 EXAMINED BY ST KM

SUFFOLK COUNTY DEPARTMENT OF HEALTH
 Smithtown, N. Y.

CHEMICAL EXAMINATIONS OF WATER, SEWAGE, INDUSTRIAL WASTES

NAME Republic Junction OWNER _____
 LOCATION Quaker St. Smithtown, N.Y. DISTRICT _____

WATER SUPPLY DATA

POINT of COLLECTION Sampling Line
 CHLORINE RESIDUAL OT OT + A _____ A + OT _____

REMARKS: _____

Results to J. P. [Signature]
~~Results to J. P. [Signature]~~

COMPLETE PARTIAL ROUTINE RE-SAMPLE SPECIAL

TEST	RESULT	TEST	RESULT	TEST	RESULT
Free Ammonia (mg/l N)		T. Hardness (mg/l CaCO ₃)		B.O.D. (mg/l)	
Alb Ammonia (mg/l N)		T. Alkalinity (mg/l CaCO ₃)		Iron (mg/l Fe)	<u>1.1</u>
Nitrites (mg/l N)		P. Alkalinity (mg/l CaCO ₃)		Manganese (mg/l Mn)	<u><0.05</u>
Nitrates (mg/l N)	<u>1.31</u>	Free CO ₂ (Nomograph)		Copper (mg/l Cu)	<u><0.1</u>
MBAS (mg/l)		T. Solids (mg/l)		Zinc (mg/l Zn)	<u>0.27</u>
pH	<u>2.6</u>	D. Solids (mg/l)		Cr ⁺⁺⁺ (mg/l)	<u><0.01</u>
C.O.D. (mg/l)		S. Solids (mg/l)		✓ Cyanide (mg/l CN)	<u><0.25</u>
T. PO ₄ (mg/l)	<u>0.85</u>	Chlorides (mg/l Cl)		Flouride (mg/l F)	<u>0.19</u>
Ortho PO ₄ (mg/l)		Spec. Concl. (mmhos)		Cadmium (mg/l Cd)	<u>0.02</u>
				Nickel (mg/l Ni)	<u>0.14</u>
				T. Chromium (mg/l Cr)	<u>0.75</u>
				Silver (mg/l Ag)	<u><0.05</u>
				Lead (mg/l Pb)	<u><0.5</u>

R.J.E.

Lab. Nos.: LIC W-50 SW 720 Collected by: E. SMITH Title: S.R. SAN. CHEM Dates
 Drainage Basin: LONG ISLAND - 17 Sub-watershed: CROUNDED WATER Coll'd: 2/17/72
 Project: REPUBLIC AIRCRAFT, FARMINGDALE N.Y. Mileage Index: — Rec'd: 2/17/72
 : FRAINFILUENT (Contamination) County: SUFFOLK Exam: 2/17/72
 Sample: Catch (X) Time comp () Flow comp () Start: 1140 Stop: Int. h.

APPEARANCE OF STREAM	BIOCHEMICAL OXYGEN DEMAND	PHENOLS (as C ₆ H ₅ OH)
*COLOR () *SUSPENSION ()	5 Day B.O.D.	
*ODOR () *TURBIDITY ()	Day B.O.D.	
BOTTOM AND DEPOSITS	DISSOLVED OXYGEN	CYANIDE (CN)

Albany Sampler for
 pH 7.3 WATER TEMP. °C D.O. PERCENT SATURATION
 WEATHER CHEMICAL OXYGEN DEM'D
 SAMPLE

*COLOR () *ODOR (-)	100ml	ml	HEXAVALENT = 0.34 mg/l
*SUSPENSION () TURB'Y, units	Traces	Traces	CHROMIUM = 0.6 mg/l
CONDUCTIVITY, micromhos			100ml sample
CHLORIDE (Cl)			70T = 49.6 = 34.0 mg
			34.0 mg x 1000 = 340 mg
			100
			= 0.34 mg/l.
			TOTAL CHROMIUM = 0.6 mg/l

PHOSPHATE (PO ₄)	RESIDUE on EVAPORATION	SUSPENDED RESIDUE	DISS'D RES
TOTAL PHOSPHATE	ml	ml	
ORTHOPHOSPHATE	ml	ml	

ALKALINITY (CaCO ₃)	TOTAL RESIDUE	TOTAL S.R.
To pH8.3	ml	ml
to pH4.5	ml	ml

SETTLEABLE MATTER	COLIFORM GROUP-M.F.	FREE AMMONIA(N)
1/2 Hr.	ml	ml distilled
1 Hr.		ml. Nesslerized
2 Hrs.		Final vol. Residue
		Filtered
		Titred
		Titred

TOTAL GREASE	COLIFORM GROUP-FERM'N	ORGANIC (N)
ml	MPN per 100 ml.	
	FECAL COLIFORM-M.F.	
	ml	
	COLONIES per 100 ml.	

*=Very Slight, 2=Slight, 3=Distinct
 =Decided, 5=Extreme
 Note: All chemical results are in mg/l unless otherwise indicated.

CDO DSD (2) EXAMINATION OF WASTES AND NON-DRINKABLE WATERS

Lab'y. Nos.: L10W-51 SW 721 Collected by: E. Smith Title: S. San Chem Dates: _____
 Drainage Basin: Long Islands - 17 Sub-watershed: GROUPS CENTER Collected by: _____
 Project: REPUBLIC RICEHART-FARM WASTEWATER, N.Y. Mileage Index: — Recd. No.: _____
 Source: ACID REACTION BATH EFFLUENT County: SUFFOLK Exam. No.: _____
 Sample: Catch 14 Time comp () Flow comp () Start: 1125 Stop: _____ Int. _____ hr. _____

APPEARANCE OF STREAM		BIOCHEMICAL OXYGEN DEMAND		PHENOLS (as C ₆ H ₅ OH)		
*COLOR () *SUSPENSION ()		5 Day B.O.D.				
*ODOR () *TURBIDITY ()		Day B.O.D.				
BOTTOM AND DEPOSITS		DISSOLVED OXYGEN		CYANIDE (CN)		
<u>Albany Sample Lake</u>		100 ml	2			
		1	1			
		D.O. PERCENT SATURATION		HEAVY METALS = <u>< 0.005 mg/l</u>		
		CHEMICAL OXYGEN DEM'D		CHROMIUM		
SAMPLE				100ml Sample		
*COLOR () *ODOR ()	% T = <u>98.5</u>					
*SUSPENSION () TURB'Y, units	= <u>< 0.5 mg</u>					
CONDUCTIVITY, micromhos	<u>20.5 x 1000 = 2.5 mg</u>					
CHLORIDE (Cl)	CARBON DIOXIDE (CO ₂)		TOTAL CHROMIUM = <u>1.1 mg/l</u>			
PHOSPHATE (PO ₄)		RESIDUE on EVAPORATION		SUSPENDED RESIDUE		DISS'D RES
TOTAL PHOSPHATE						
ORTHOPHOSPHATE						
		TOTAL RESIDUE		TOTAL S.R.		
		VOLATILE T.R.		VOLATILE S.R.		
		FIXED T.R.		FIXED S.R.		
		COLIFORM GROUP-M.F.		FREE AMMONIA(N)		
SETTLABLE MATTER				ORGANIC (N)		
1/2 Hr.	ml/l			NITRITE (N)		
1 Hr.	"			NITRATE (N)		
2 Hrs.	"	COLONIES per 100 ml.		NITRATE (N)		
TOTAL GREASE		COLIFORM GROUP-FERM'N		NITRATE (N)		
		MPN per 100 ml.		NITRATE (N)		
		FECAL COLIFORM-M.F.		NITRATE (N)		
		COLONIES per 100 ml.		NITRATE (N)		
		Note: All chemical results are in mg/l unless otherwise indicated.		NITRATE (N)		

REGION 1

NEW YORK STATE DEPARTMENT OF HEALTH
 DIVISION OF LABORATORIES AND RESEARCH—ENVIRONMENTAL HEALTH CENTER
 CRO PWD OF EXAMINATION OF WASTES AND NON-DRINKABLE WATERS

Lab'y. Nos.: LCW-5 2 SW723 Collected by: R. Smith Title: San Juan Chem Date: _____
 Drainage Basin: Long Island - 13 Sub-watershed: Springwater Collected: _____
 Project: Republic Airport - Farmhouse No. 1 Mileage Index: — Rec'd: _____
 Source: ALKALINE REACTION TANK EFFLUENT County: Suffolk Exam: _____
 Sample: Catch (x) Time comp () Flow comp () Start: 1135 Stop: _____ Int. _____

APPEARANCE OF STREAM	BIOCHEMICAL OXYGEN DEMAND	PHENOLS (as C ₆ H ₅ OH)
*COLOR () *SUSPENSION ()	5 Day B.O.D.	
*ODOR () *TURBIDITY ()	Day B.O.D.	

BOTTOM AND DEPOSITS	DISSOLVED OXYGEN	CYANIDE (CN)
<i>Always Sample for Tot Cr.</i>	100 ml. 2. 1. 0.5	ml.
	Titre 2.5 1.5 1.0	

pH <u>3.2</u> WATER TEMP. _____ °C	D.O. PERCENT SATURATION	HEXAVALENT = <u>< 0.005 mg/l</u>
WEATHER	CHEMICAL OXYGEN DEM'D	CHROME

SAMPLE		100 ml Sample
*COLOR () *ODOR ()		TOT = <u>98.8</u>
*SUSPENSION () TURBY, units		= <u>< 0.5 mg</u>
CONDUCTIVITY, micromhos		<u>< 0.5 mg x 1000 = 5 mg</u>

CHLORIDE (Cl)	CARBON DIOXIDE (CO ₂)	TOTAL CHROMIUM = <u>0.7 mg/l</u>
ml. 2. 1. 0.5	ml. 2. 1. 0.5	
Titre 2.5 1.5 1.0	Titre 2.5 1.5 1.0	

PHOSPHATE (PO ₄)	RESIDUE on EVAPORATION	SUSPENDED RESIDUE	DISS'D RE
TOTAL PHOSPHATE	ml. 2. 1. 0.5	ml. 2. 1. 0.5	
ml. Heating	10. Dist #	Susp Res. - Crn.	

ORTHOPHOSPHATE	ml. Heating	Dist #	Crucible #
ml. Heating			

ALKALINITY (CaCO ₃)	TOTAL RESIDUE	TOTAL S.R.
To pH8.3	ml. Dist	Susp Res. - Crn.
to pH4.5	ml. Dist	10. Crucible

VOLATILE T.R.	VOLATILE S.R.
ml. 2. 1. 0.5	ml. 2. 1. 0.5
Titre 2.5 1.5 1.0	Titre 2.5 1.5 1.0

COLIFORM GROUP-M.F.	FREE AMMONIA (N)
ml. 2. 1. 0.5	ml. distilled 2. 1. 0.5
Titre 2.5 1.5 1.0	ml. Nasalirited 2. 1. 0.5

SETTLEABLE MATTER	ORGANIC (N)
1/2 Hr. ml/l	ml. 2. 1. 0.5
1 Hr. "	ml. 2. 1. 0.5
2 Hrs. "	ml. 2. 1. 0.5

TOTAL GREASE	COLIFORM GROUP-FERM'N
ml. 2. 1. 0.5	MPN per 100 ml.
ml. Heating	FECAL COLIFORM-M.F.

COLONIES per 100 ml.	NITRITE (N)
ml. 2. 1. 0.5	ml. 2. 1. 0.5
Titre 2.5 1.5 1.0	ml. Reading

COLONIES per 100 ml.	NITRATE (N)
ml. 2. 1. 0.5	ml. 2. 1. 0.5
Titre 2.5 1.5 1.0	ml. Reading

*1=Very Slight, 2=Slight, 3=Distinct
 4=Decided, 5=Extreme

Note: All chemical results are in mg/l unless otherwise indicated.

REGION 1

NEW YORK STATE DEPARTMENT OF HEALTH
 DIVISION OF LABORATORIES AND RESEARCH—ENVIRONMENTAL HEALTH CENTER
 CRO AND GREASE EXAMINATION OF WASTES AND NON-POTABLE WATERS

Lab'y. Nos.: LICW-57 SW722	Collected by: C Smith	Title: In. San Chem	Date:
Drainage Basin: Long Island - 17	Sub-watershed: GROUND WATER	Mileage Index: —	Co. dist.:
Project: REPUBLIC AIRPORT - FARMINGTON N.Y.	County: SUFFOLK	Exam. No.:	
Source: FINAL SETTLING TANK EFFLUENT	Start: 1146	Stop:	Int.:

APPEARANCE OF STREAM		BIOCHEMICAL OXYGEN DEMAND		PHENOLS (as C ₆ H ₅ OH)	
*COLOR () *SUSPENSION ()		5 Day B.O.D.			
*ODOR () *TURBIDITY ()		Day B.O.D.			
BOTTOM AND DEPOSITS		DISSOLVED OXYGEN		CYANIDE (CN)	
Albany Samples for Tot. Cr.					
pH 6.2	WATER TEMP. °C	D.O. PERCENT SATURATION		HEXAVALENT	= < 0.005 mg/l
WEATHER		CHEMICAL OXYGEN DEM'D		CHROMIUM	VF
SAMPLE				100 ml Sample.	
*COLOR () *ODOR ()				% T = 99.8	
*SUSPENSION () TURBY, units				= < 0.5 mg.	
CONDUCTIVITY, micromhos				0.5 mg x 1000 = 5 mg / 100	
CHLORIDE (Cl)		CARBON DIOXIDE (CO ₂)		TOTAL	
				CHROMIUM	= 0.3 mg/l
PHOSPHATE (PO ₄)		RESIDUE on EVAPORATION		SUSPENDED RESIDUE	
TOTAL PHOSPHATE					
ORTHOPHOSPHATE					
ALKALINITY (CaCO ₃)		TOTAL RESIDUE		TOTAL S.R.	
To pH 8.3					
to pH 4.5					
VOLATILE T.R.		VOLATILE S.R.			
FIXED T.R.		FIXED S.R.			
SETTLEABLE MATTER		COLIFORM GROUP-M.F.		FREE AMMONIA (NH)	
1/2 Hr.	ml/l				
1 Hr.	"				
2 Hrs.	"				
TOTAL GREASE		COLIFORM GROUP-FERM'N		ORGANIC (N)	
		MPN per 100 ml.			
		FECAL COLIFORM M.F.			
		COLONIES per 100 ml.		NITRITE (NO ₂)	
				ml. Reading	
		Note: All chemical results are in mg/l unless otherwise indicated.		NITRATE (NO ₃)	
				ml. Reading	

*1=Very Slight, 2=Slight, 3=Distinct
 4=Decided, 5=Extreme

REGISTRATION

Lab'y. Nos.: 100-5-11 Collected by: E. SMITH Title: SR SAN CHEM Dates: Coll'd: 11/25/71
Drainage Basin: LONG ISLAND - 17 Sub-watershed: GROUND WATER Rec.: 11/25/71
Loc: RUDOLPH AIRCRAFT FARMINGDALE N.Y. Mileage Index: - Exam: 11/25/71
Source: FLYING DUTCHMAN EFFLUENT OF INDUSTRIAL WASTE PLANT County: SUFFOLK
Sample: Catch (X) Time comp () Flow comp () Start: 11:20 Stop: Int. hr.

Table with 3 columns: APPEARANCE OF STREAM, BIOCHEMICAL OXYGEN DEMAND, PHENOLS (as C6H5OH). Rows include COLOR, SUSPENSION, ODOR, TURBIDITY, 5 Day B.O.D., Day B.O.D.

Table with 3 columns: BOTTOM AND DEPOSITS, DISSOLVED OXYGEN, CYANIDE (CN). Rows include pH 10.9, WATER TEMP., WEATHER, D.O. PERCENT SATURATION, CHEMICAL OXYGEN DEM'D, SAMPLE, CONDUCTIVITY, CHLORIDE (Cl), CARBON DIOXIDE (CO2), METALS.

Table with 4 columns: PHOSPHATE (PO4), RESIDUE on EVAPORATION, SUSPENDED RESIDUE, DISS'D RES. Rows include TOTAL PHOSPHATE, ORTHOPHOSPHATE, ALKALINITY (CaCO3), TOTAL RESIDUE, TOTAL S.R., VOLATILE T.R., VOLATILE S.R., FIXED T.R., FIXED S.R.

Table with 2 columns: COLIFORM GROUP-M.F., FREE AMMONIA(N). Rows include SETTLEABLE MATTER (1/2 Hr, 1 Hr, 2 Hrs), COLONIES per 100 ml.

Table with 2 columns: COLIFORM GROUP-FERM'N, ORGANIC (N). Rows include TOTAL GREASE, COLONIES per 100 ml., FECAL COLIFORM-M.F., COLONIES per 100 ml., NITRITE (N).

1=Very Slight, 2=Slight, 3=Distinct, 4=Decided, 5=Extreme. Note: All chemical results are in mg/l unless otherwise indicated. NITRATE (N)

RECEIVED DEC 8 1971

Lab'y. Nos.: 410W-51 SW721 Collected by: E. Smith Title: San San Chem Date: _____
 Drainage Basin: Long Island - 17 Sub-watershed: GROUP 1 CENTER Collection Date: _____
 Project: REPUBLIC RECREATION-FARM WATERS, N.Y. Mileage Index: --- Rec'd Date: _____
 Source: ACID REACTION BATH EFFLUENT County: SUFFOLK Exam Date: _____
 Sample: Catch M Time comp () Flow comp () Start: 1125 Stop: _____ Int. hr: _____

APPEARANCE OF STREAM		BIOCHEMICAL OXYGEN DEMAND		PHENOLS (as C ₆ H ₅ OH)	
*COLOR () *SUSPENSION ()		5 Day B.O.D.			
*ODOR () *TURBIDITY ()		Day B.O.D.			
BOTTOM AND DEPOSITS		DISSOLVED OXYGEN		CYANIDE (CN)	
<i>Albany Sample for</i>		100 ml. 2 1 Titer		ml.	
		100 ml. 2 1 Titer		METALS	
pH <u>2.8</u>	WATER TEMP. °C	D.O. PERCENT SATURATION		Hexavalent = <u>< 0.005 mg/l</u>	
WEATHER		CHEMICAL OXYGEN DEM'D		Chromic	
SAMPLE				100ml Sample	
*COLOR () *ODOR ()				T ₆₀ = <u>98.5</u>	
*SUSPENSION () TURBIDITY, units				= <u>< 0.5 mg.</u>	
CONDUCTIVITY, micromhos				<u>40.5 x 1000 = 40.5 mg</u>	
CHLORIDE (Cl)				100	
				TOTAL CHROMIUM = <u>1.1 mg/l</u>	
PHOSPHATE (PO ₄)		RESIDUE on EVAPORATION		SUSPENDED RESIDUE	
TOTAL PHOSPHATE					
ORTHOPHOSPHATE					
ALKALINITY (CaCO ₃)		TOTAL RESIDUE		TOTAL S.R.	
To pH 8.3					
To pH 4.5					
		VOLATILE T.R.		VOLATILE S.R.	
		FIXED T.R.		FIXED S.R.	
COLIFORM GROUP-M.F.		FREE AMMONIA(N)			
SETTLABLE MATTER					
1/2 Hr. ml/l					
1 Hr. "					
2 Hrs. "					
COLONIES per 100 ml.		ORGANIC (N)			
TOTAL GREASE		COLIFORM GROUP-FERM'N			
		MPN per 100 ml.			
		FECAL COLIFORM-M.F.			
		COLONIES per 100 ml.		NITRITE (N)	
				ml. Reading	
				NITRATE (N)	
				ml. Reading	

*1=Very Slight, 2=Slight, 3=Distinct
4=Decided, 5=Extreme

Note: All chemical results are in mg/l unless otherwise indicated.

QUALITY REGION 1

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH—ENVIRONMENTAL HEALTH CENTER
CRIO P.D. EXAMINATION OF WASTES AND NON-DRINKABLE WATERS

Lab'y. Nos.: LICW-5 2 SW723 Collected by: *S. S. Chen* Title: *S. S. Chen Chem* Date: _____
 Drainage Basin: *Long Island - 13* Sub-watershed: *Long Island Water* Collected: _____
 Project: *REPUBLIC AIRPORT - FARMVILLE N.Y.* Mileage Index: *—* Recd.: _____
 Source: *ALKALINE REACTION TANK EFFLUENT* County: *SUFFOLK* Exam.: _____
 Sample: Catch (X) Time comp () Flow comp () Start: *1135* Stop: _____ Int: _____

APPEARANCE OF STREAM		BIOCHEMICAL OXYGEN DEMAND		PHENOLS (as C ₆ H ₅ OH)			
*COLOR () *SUSPENSION ()		5 Day B.O.D.					
*ODOR () *TURBIDITY ()		Day B.O.D.					
BOTTOM AND DEPOSITS		DISSOLVED OXYGEN		CYANIDE (CN)			
Always Sample for Tot Cr.							
						METALS	
pH <i>3.2</i>	WATER TEMP. °C	D.O. PERCENT SATURATION		HEXAVALENT = <i>< 0.005 mg/l</i>			
WEATHER		CHEMICAL OXYGEN DEM'D		CHROMIUM			
SAMPLE				100 ml Sample			
*COLOR () *ODOR ()				Tot = <i>98.8</i>			
*SUSPENSION () TURBIDITY, units				= <i>< 0.5 ug</i>			
CONDUCTIVITY, micromhos				= <i>< 0.5 ug x 1000 = 5 ug</i>			
CHLORIDE (Cl)		CARBON DIOXIDE (CO ₂)		TOTAL CHROMIUM = <i>0.7 ug/l</i>			
PHOSPHATE (PO ₄)		RESIDUE on EVAPORATION		SUSPENDED RESIDUE			
TOTAL PHOSPHATE							
ORTHOPHOSPHATE							
ALKALINITY (CaCO ₃)		TOTAL RESIDUE		TOTAL S.R.			
To pH 8.3							
to pH 4.5							
		VOLATILE T.R.		VOLATILE S.R.			
		FIXED T.R.		FIXED S.R.			
SETTLEABLE MATTER		COLIFORM GROUP-M.F.		FREE AMMONIA (N)			
						ORGANIC (N)	
						NITRITE (N)	
TOTAL GREASE		COLIFORM GROUP-FERM'N		NITRATE (N)			
		MPN per 100 ml.					
		FECAL COLIFORM-M.F.					
		COLONIES per 100 ml.					
		Note: All chemical results are in mg/l unless otherwise indicated.					

*1=Very Slight, 2=Slight, 3=Distinct
4=Decided, 5=Extreme

REGIONALITY

LAB. No. 671257
 FIELD No. SC DEC-821
 DATE: 6/23/71
 TIME: 1:30
 COL BY: R. Strzepel
 (NAME, NOT INITIALS)

Date Received in LAB. 6-23-71
 PUBLIC WATER _____
 PRIVATE WATER _____
 OTHER Ind. Waste
 DATE COMPLETED 7-21-71
 EXAMINED BY K

SUFFOLK COUNTY DEPARTMENT OF HEALTH
 Smithtown, N. Y.

CHEMICAL EXAMINATIONS OF WATER, SEWAGE, INDUSTRIAL WASTES

NAME Republic Aviation Div. OWNER OF DISTRICT Fairchild Hiller
 LOCATION Rte 110 Farmingdale

WATER SUPPLY DATA

POINT of COLLECTION Sump - outfall pipe
 CHLORINE RESIDUAL OT OT + A A + OT

REMARKS: _____

Results to: R. Strzepel - DEC. Hauppauge

COMPLETE PARTIAL ROUTINE RE-SAMPLE SPECIAL

TEST	RESULT	TEST	RESULT	TEST	RESULT
Free Ammonia (mg/l N)		T. Hardness (mg/l CaCO ₃)		B.O.D. (mg/l)	
Alb Ammonia (mg/l N)		T. Alkalinity (mg/l CaCO ₃)		Iron (mg/l Fe)	
Nitrites (mg/l N)		P. Alkalinity (mg/l CaCO ₃)		Manganese (mg/l Mn)	
✓ Nitrates (mg/l N)	0.8	Free CO ₂ (Nomagraph)		Copper (mg/l Cu)	
✓ MBAS (mg/l)	0.11	T. Solids (mg/l)		Zinc (mg/l Zn)	
✓ pH	11.9	D. Solids (mg/l)		✓ Cr ⁺⁺ (mg/l)	0.05 _m
C.O.D. (mg/l)		S. Solids (mg/l)		Cyanide (mg/l CN)	
T. PO ₄ (mg/l)		Chlorides (mg/l Cl)		Flouride (mg/l F)	
Ortho PO ₄ (mg/l)		Spec. Concl. (mmhos)		✓ Tot. Cr.	0.25 _m
				✓ Cd	<0.01
				✓ Ni	<0.05 _m

Ab. No. 671238
 FIELD No. SL DEC-822
 DATE: 6/23/71
 TIME: 12:30 PM
 COL. BY: R. Strzpek
 (NAME, NOT INITIALS)

Date Received in Lab. 6-23-71
 PUBLIC WATER _____
 PRIVATE WATER _____
 OTHER Ind. Waste
 DATE COMPLETED 7-21-71
 EXAMINED BY RW


SUFFOLK COUNTY DEPARTMENT OF HEALTH
 Smithtown, N. Y.

CHEMICAL EXAMINATIONS OF WATER, SEWAGE, INDUSTRIAL WASTES

NAME Republic Aviation Div. OWNER OF DISTRICT Fairchild Hiller
 LOCATION Rte 110 Farmingdale

WATER SUPPLY DATA

POINT OF COLLECTION South West Corner of Sump
 CHLORINE RESIDUAL _____ OT _____ OT + A _____ AL-OT _____

REMARKS: Results to R. Strzpek D.E.C. Hauppauge


COMPLETE PARTIAL ROUTINE RE-SAMPLE SPECIAL

TEST	RESULT	TEST	RESULT	TEST	RESULT
Free Ammonia (mg/l N)		T. Hardness (mg/l CaCO ₃)		B.O.D. (mg/l)	
Alb Ammonia (mg/l N)		T. Alkalinity (mg/l CaCO ₃)		Iron (mg/l Fe)	
Nitrites (mg/l N)		P. Alkalinity (mg/l CaCO ₃)		Manganese (mg/l Mn)	
✓ Nitrates (mg/l N)	0.1	Free CO ₂ (Nomograph)		Copper (mg/l Cu)	
✓ MBAS (mg/l)	<0.1	T. Solids (mg/l)		Zinc (mg/l Zn)	
✓ pH	8.2	D. Solids (mg/l)		✓ Cr ⁺⁺ (mg/l)	.045
C.O.D. (mg/l)		S. Solids (mg/l)		Cyanide (mg/l CN)	
T. PO ₄ (mg/l)		Chlorides (mg/l Cl)		Flouride (mg/l F)	
Ortho PO ₄ (mg/l)		Spec. Concl. (mmhos)		✓ Tot. Cr.	0.075
				✓ Cd	<0.01
				✓ Ni	<0.05

LAB. No A711
 FIELD No SCHR-490
 DATE: 4/19/71
 TIME: 1:30
 BY: R. Gilbert
 (NAME, NOT INITIALS)

Date Received in LAB. 4-19-71
 PUBLIC WATER _____
 PRIVATE WATER _____
 OTHER Ind. W.
 DATE COMPLETED 5-21-71
 EXAMINED BY RH

SUFFOLK COUNTY DEPARTMENT OF HEALTH
 Smithtown, N. Y.

CHEMICAL EXAMINATIONS OF WATER, SEWAGE, INDUSTRIAL WASTES

NAME Republic Aviation Corp. OWNED BY Fairchild Hiller
 LOCATION Pte 110 Farmingdale

WATER SUPPLY DATA

POINT of COLLECTION Sump outfall pipe
 CHLORINE RESIDUAL OT OT A A OT
 REMARKS: _____

Results to: R. Strzepek - Rvd

COMPLETE PARTIAL ROUTINE RE-SAMPLE SPECIAL

TEST	RESULT	TEST	RESULT	TEST	RESULT
Free Ammonia (mg/l N)		T. Hardness (mg/l CaCO ₃)		B.O.D. (mg/l)	
Alb Ammonia (mg/l N)		T. Alkalinity (mg/l CaCO ₃)		Iron (mg/l Fe)	
Nitrites (mg/l N)		P. Alkalinity (mg/l CaCO ₃)		Manganese (mg/l Mn)	
✓ Nitrates (mg/l N)	0.0	Free CO ₂ (Nomograph)		Copper (mg/l Cu)	
✓ MBAS (mg/l)	0.1	T. Solids (mg/l)		Zinc (mg/l Zn)	
✓ pH	7.7	D. Solids (mg/l)		✓ Cr ⁺⁺⁺ (mg/l)	0.54
C.O.D. (mg/l)		S. Solids (mg/l)		Cyanide (mg/l CN)	
T. PO ₄ (mg/l)		Chlorides (mg/l Cl)		Flouride (mg/l F)	
Ortho PO ₄ (mg/l)		Spec. Concl. (mmhos)		✓ Tot. Cr.	1.0
				✓ Cd	0.039
				✓ Pb	
				✓ Ni	0.015

EDWARD S. GODFREY, JR., M. D.

COMMISSIONER

PAUL D. BROOKS, M. D.

DEPUTY COMMISSIONER

NEW YORK

STATE DEPARTMENT OF HEALTH

ALBANY

DIVISION OF SANITATION

CHARLES A. HOLMQUIST, B. S.

DIRECTOR

EARL DEVENDORF, M. S.

ASSOCIATE DIRECTOR

PERMIT TO DISCHARGE SEWAGE OR WASTES INTO THE WATERS OF THE STATE

Application having been duly made to the State Commissioner of Health as provided by Article V of the Public Health Law, permission is hereby given to Republic Aviation Corp. to discharge sewage effluent from the proposed sewage disposal works to serve its factory near Farmingdale, in the town of Babylon, as shown on the plans approved this day, into the ground waters of the State tributary to the Atlantic Ocean at the points on the property shown on the approved plans

within the TOWN of BABYLON, SUFFOLK COUNTY, NEW YORK.
under the following conditions:

- I. THAT this permit shall be revocable at any time or subject to modification or change when in the judgment of the State Commissioner of Health such revocation, modification or change shall become necessary.
- II. THAT the proposed outfall sewer and sewage disposal works shown on the plans approved this day shall be fully constructed in complete conformity with such plans or approved amendments thereto.
- III. THAT the outfall sewer shall be made as watertight as practicable to exclude so far as possible any ground water infiltration and that only sanitary or domestic sewage and no storm water or surface water from streets, roofs or other areas shall be admitted to the sewage disposal works.
- IV. THAT chlorine shall be applied to the sewage continuously at the point shown on the approved plans at a rate sufficient to effectively chlorinate the sewage.
- V. THAT the sewage disposal works shall be operated at all times to the satisfaction of the State Commissioner of Health.
- VI. THAT whenever required by the State Commissioner of Health additional or more adequate works for the collection or disposal of sewage shall be installed and put in operation, plans for which shall first be submitted to and receive the approval of the State Department of Health.

Dated January 13, 1941.

.....
Director, Division of Sanitation.
SUFFOLK

NOTE -- This permit before being operative shall be recorded in the County Clerk's Office of County

APPENDIX C

ORB MOUNT CALCULATIONS

ORB MOUND CALCULATIONS

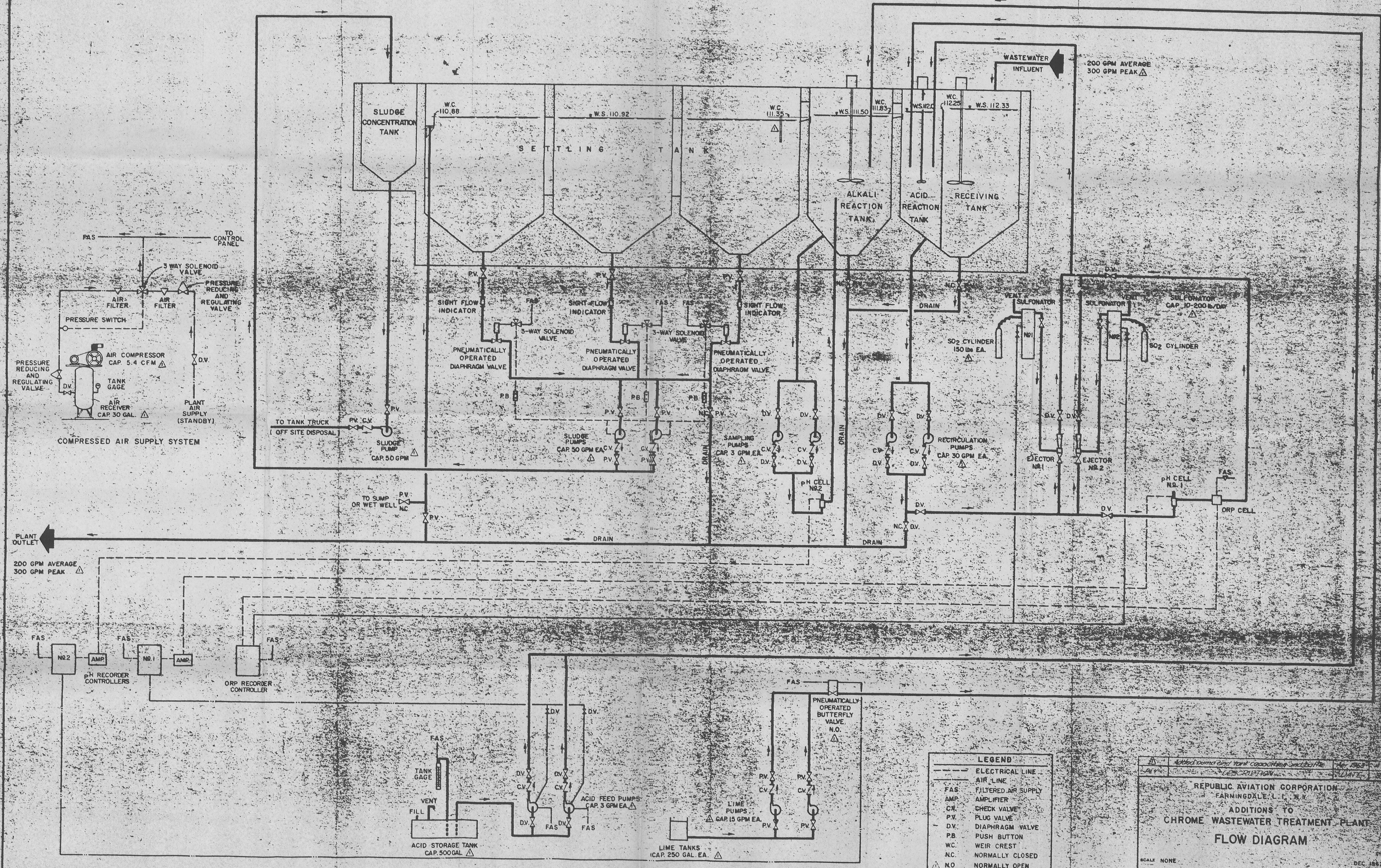
Temporary well FR-1 was located approximately 400 feet upgradient of the ORB. The QuickFlow analytical model was used to estimate the upgradient extent of the mound created below the ORB when it was active. Two transmissivity values were used in the calculations to represent a reasonable range of hydrogeological parameters at the site. The model input parameters (based on RI and literature data) were as follows:

- Transmissivity
 - Case 1
 - Upper Glacial Aquifer: Hydraulic Conductivity = 200 feet/day
Saturated Thickness = 70 feet
 - Magothy Aquifer: Hydraulic Conductivity = 50 feet/day
Saturated Thickness = 200 feet
Total Transmissivity = 24,000 sq. feet per day
 - Case 2
 - Upper Glacial Aquifer: Hydraulic Conductivity = 250 feet/day
Saturated Thickness = 70 feet
 - Magothy Aquifer: Hydraulic Conductivity = 70 feet/day
Saturated Thickness = 300 feet
Total Transmissivity = 38,500 sq. feet per day
- Regional Hydraulic Gradient = 0.0015 feet/feet
- Infiltration Rate through the ORB = 0.52 cu. feet per day
The discharge to the ORB was estimated as 2 mgd (see the ORB RI report) applied to an approximately 500,000 sq. foot area. The ORB was simulated as two 250,000 sq. foot circular ponds.

The calculation results are shown on Figure 1 and 2. The mound extends in the upgradient direction from approximately 200 to 600 feet depending on the aquifer transmissivity. The calculation indicates that groundwater quality at well FR-1, located approximately 400 feet to the north to of the ORB, may have been affected by discharges to the ORB, but even with mounding the upgradient well should have a lower concentration than downgradient. TCE concentration in the upgradient FR-1 well was higher than in downgradient well FR-2, which indicates an upgradient source. The text of the report will be modified accordingly.

APPENDIX D

WASTEWATER TREATMENT PLANT PROCESS FLOW DIAGRAM



LEGEND

---	ELECTRICAL LINE
---	AIR LINE
FAS	FILTERED AIR SUPPLY
AMP	AMPLIFIER
CV	CHECK VALVE
P.V.	PLUG VALVE
D.V.	DIAPHRAGM VALVE
P.B.	PUSH BUTTON
W.C.	WEIR CREST
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN

REPUBLIC AVIATION CORPORATION
 FARMINGDALE, L. I., N. Y.
 ADDITIONS TO
 CHROME WASTEWATER TREATMENT PLANT
 FLOW DIAGRAM

SCALE NONE

165 BROADWAY
 NEW YORK CITY

ALEXANDER POTTER ASSOCIATES
 CONSULTING ENGINEERS
 BY: *Dr. H. K. Rogers*

DEC 1962

SHEET NO. 1