



02-8703-50PA

POTENTIAL HAZARDOUS WASTE SITE

PRELIMINARY ASSESSMENT

FILE COPY

Union Carbide Corporation

Site Name

NYD980532410

EPA Site ID Number

400 47th Street

Niagara Falls, New York

Address

02-8703-50

TDD Number

Date of Site Visit: 03/25/87

SITE DESCRIPTION

The Union Carbide Corporation is located on 400 47th Street in Niagara Falls, New York. The facility was sold to the Niacet Corporation in 1978. The Union Carbide Corp. produced many chemicals including pesticides during the years of 1926 to 1978. The plant produced a variety of wastes including mercury/aluminum sludge, 2-ethylhexoate, zinc acetate, acetic acid, acetate salts and overflows from the vinyl division. The mercury/aluminum sludge, and the 2-ethylhexoate were stored in 55-gallon drums for a 24-month period and then hauled from the facility. It is not known if the drums were stored properly.

The zinc acetate, acetic acid, acetate salts and overflows from the vinyl division were discharged on a daily basis to the city sewer system to the Niagara Falls Waste Water Treatment Plant.

The Union Carbide facility is located in an industrial area with residential areas on the east and west. A wetland area lies 1000 feet northeast of the site.

PRIORITY FOR FURTHER ACTION: High _____ Medium _____ Low X None _____

RECOMMENDATIONS

A site inspection is recommended on a time available basis. There is a potential for soil, surface water and groundwater contamination from possible improper storage of drums. Sampling of soil, groundwater and surface water may be warranted.

Prepared by: Laura LaForge
of NUS Corporation

Date: 06/01/87

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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0980532410

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Union Carbide Corporation 400 47th Street
03 CITY 04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY CODE 08 CONG DIST.
Niagara Falls NY 14304 Niagara 063 29
09 COORDINATES
LATITUDE LONGITUDE
4 30 0 5' 2 8" N 0 7 90 0 0' 2 8" W

10 DIRECTIONS TO SITE (Starting from nearest public road)

New York State Thruway (Rt. 90) to Exit 53, Rt. 190 North to Rt. 62 West (Pine St.) to 47th St., the Niacet building is on the east side of 47th St.

III. RESPONSIBLE PARTIES

01 OWNER (if known) 02 STREET (Business, mailing, residential)
Niacet Corporation 400 47th Street
03 CITY 04 STATE 05 ZIP CODE 06 TELEPHONE NUMBER
Niagara Falls NY 14304 (716) 285-1474
07 OPERATOR (if known and different from owner) 08 STREET (Business, mailing, residential)
09 CITY 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER
()

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: (Specify) ☐ G. UNKNOWN

14. OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: / / ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / /
☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)
☒ YES DATE: 01 / 27 / 77 ☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ NO ☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: (Specify)
CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN 03 YEARS OF OPERATION
1925 1978 UNKNOWN
BEGINNING ENDING

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

The plant produced a variety of waste mercury/aluminum sludge, 2-ethylhexoate, zinc acetate, acetate salts and overflows from the vinyl division.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

There is a potential for soil, surface water, and groundwater contamination at this site.

IV. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspection on time available basis) ☐ D. NONE

(No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT 02 OF (Agency/Organization) 03 TELEPHONE NUMBER
Diana Messina U.S. EPA Region 2 Edison, NJ (201) 321-6776
04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY 06 ORGANIZATION 07 TELEPHONE NUMBER 08 DATE
Laura LaForge EPA MUS FIT 2 (201) 225-6160 06 / 01 / 87

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D980532410

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

| | | | | | |
|---|-------------|--|---|-----------------|----------------------|
| 01 PHYSICAL STATES (Check all that apply) | | 02 WASTE QUANTITY AT SITE | 03 WASTE CHARACTERISTICS (Check all that apply) | | |
| - A. SOLID | - E. SLURRY | (Measures of waste quantities must be independent) | A. TOXIC | X E. SOLUBLE | - I. HIGHLY VOLATILE |
| - B. POWDER, FINES | - F. LIQUID | | X B. CORROSIVE | - F. INFECTIOUS | - J. EXPLOSIVE |
| X C. SLUDGE | - G. GAS | | - C. RADIOACTIVE | - G. FLAMMABLE | - K. REACTIVE |
| - D. OTHER = _____ | | | X D. PERSISTENT | - H. IGNITABLE | - L. INCOMPATIBLE |
| (Specify) | | TONS 273314 | | | |
| | | CUBIC YARDS _____ | | | |
| | | NO. OF DRUMS 44 | | | |

III. WASTE TYPE

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

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

| CATEGORY | 02 SUBSTANCE NAME | 03 CAS NUMBER | 04 STORAGE/DISPOSAL METHOD | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION |
|----------|-------------------------|---------------|----------------------------|------------------|-----------------------------|
| OCC | 2-Ethylhexoate | 999 | 55-gallon drums | 1100 | gal/yr |
| MES | Mercury/Aluminum Sludge | 999 | 55-gallon drums | 1100 | gal/yr |
| OCC | Acetate Salts | 999 | City Sewer | 31,536,600 | gal/yr |
| ACD | Acetic Acid | 64-19-7 | City Sewer | 36,792,000 | gal/yr |

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

NYSDEC Background File.

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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0900522410

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 0 04 NARRATIVE DESCRIPTION

There is a potential for groundwater contamination from possible improper drum storage. The groundwater is not used for drinking water purposes in this area.

01 ☒ B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 19,242 04 NARRATIVE DESCRIPTION

There is a potential for surface water contamination from possible improper drum storage via rainfall runoff. There is a wetland area 1000 feet to the northeast. The Niagara River is located 1 mile south of the site, but there is no migratory route evident.

01 ☒ C. CONTAMINATION OF AIR 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 40,820 04 NARRATIVE DESCRIPTION

There is a potential for contamination of air from possible improper drum storage.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 4946 04 NARRATIVE DESCRIPTION

There is a slight potential for fire or explosive conditions from chemical processes in operation at the facility.

01 ☒ E. DIRECT CONTACT 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 1582 04 NARRATIVE DESCRIPTION

There is a slight potential for direct contact of waste by the workers, if they are in the drum storage area.

01 ☒ F. CONTAMINATION OF SOIL 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED= Unknown (ACRES) 04 NARRATIVE DESCRIPTION

There is a potential for contamination of soil at this site, from possible improper drum storage.

01 ☐ G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE=) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 0 04 NARRATIVE DESCRIPTION

There is no potential for drinking water contamination. The City of Niagara Falls receives its drinking water from the Niagara River.

01 ☒ H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED= 45 04 NARRATIVE DESCRIPTION

There is a potential for worker exposure. The facility is active, using many chemical processes.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED= 04 NARRATIVE DESCRIPTION

There is no potential for population exposure. The facility is completely fenced. The surface water and groundwater are not used in the area surrounding the site.

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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D9E0522410

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ J. DAMAGE TO FLORA 02 ☐ OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for damage to flora via rainfall runoff from possible improper drum storage. A wetland area lies 1000 feet northeast of the site.

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

There is a potential for damage to fauna via rainfall runoff from possible improper drum storage. A wetland area lies 1000 feet northeast of the site.

01 ☒ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for contamination of the food chain via rainfall runoff from possible improper drum storage. A wetland area lies 1000 feet northeast of the site.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☐ OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
(Spills/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED= 1582 04 NARRATIVE DESCRIPTION

There is a potential for unstable containment of wastes from possible improper drum storage.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE=) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for damage to off-site property via rainfall runoff from possible improper drum storage.

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

Liquid waste containing acetate salts and acetic acid are discharged to the city sewer and the Niagara Waste Water Treatment Plant on a daily basis.

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

There is no potential for illegal/unauthorized dumping at this facility. The Niacet property is completely fenced in.

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

None

III. TOTAL POPULATION POTENTIALLY AFFECTED= Unknown

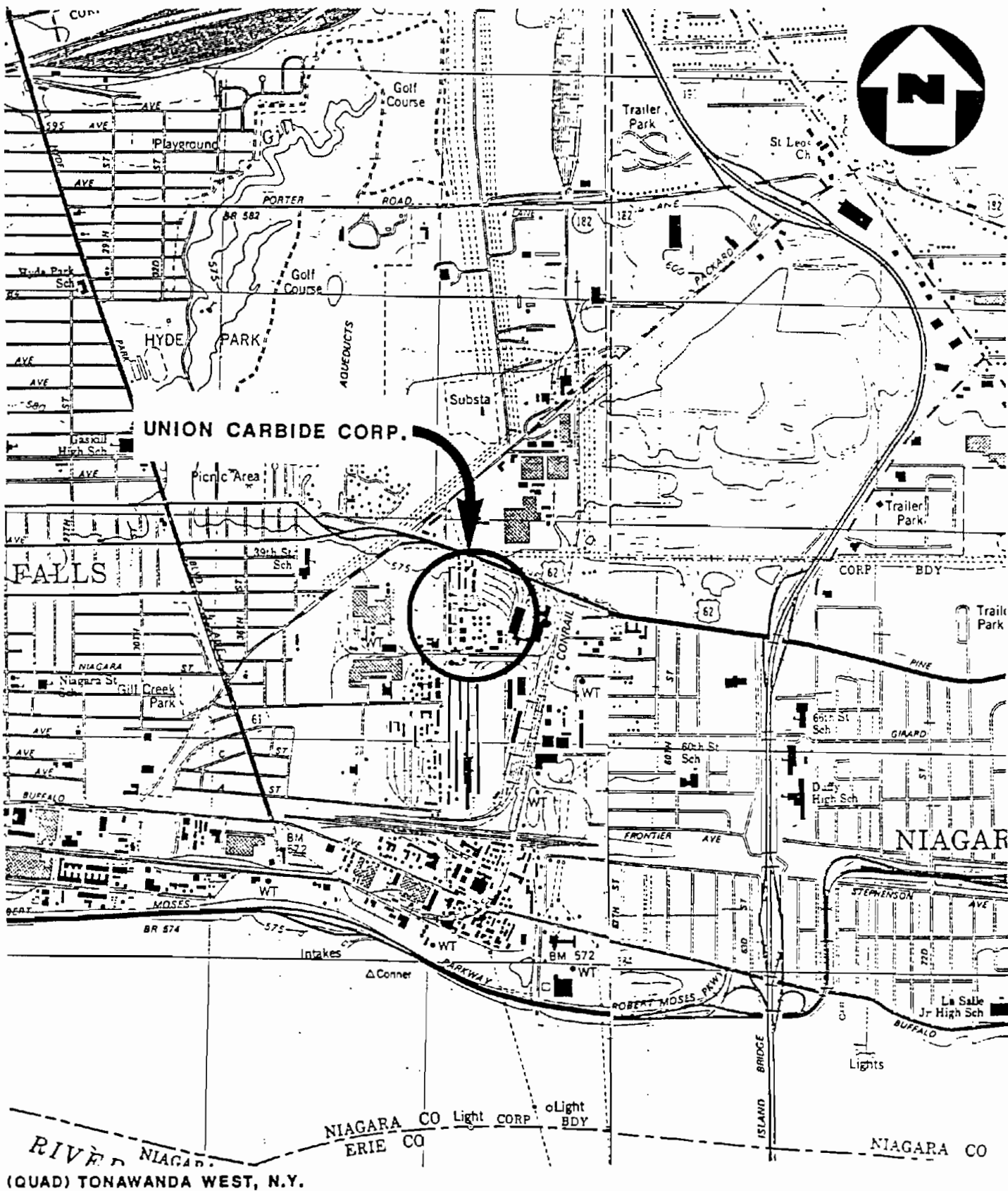
IV. COMMENTS

None

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

NYSDEC Background File.
Off Site Reconnaissance conducted by NUS on D2/25/87.

APPENDIX A
MAPS AND PHOTOGRAPHS



(QUAD) TONAWANDA WEST, N.Y.

SITE LOCATION MAP

UNION CARBIDE CORP., NIAGARA FALLS, N.Y.

SCALE: 1" = 2000'

FIGURE 1



A Halliburton Company

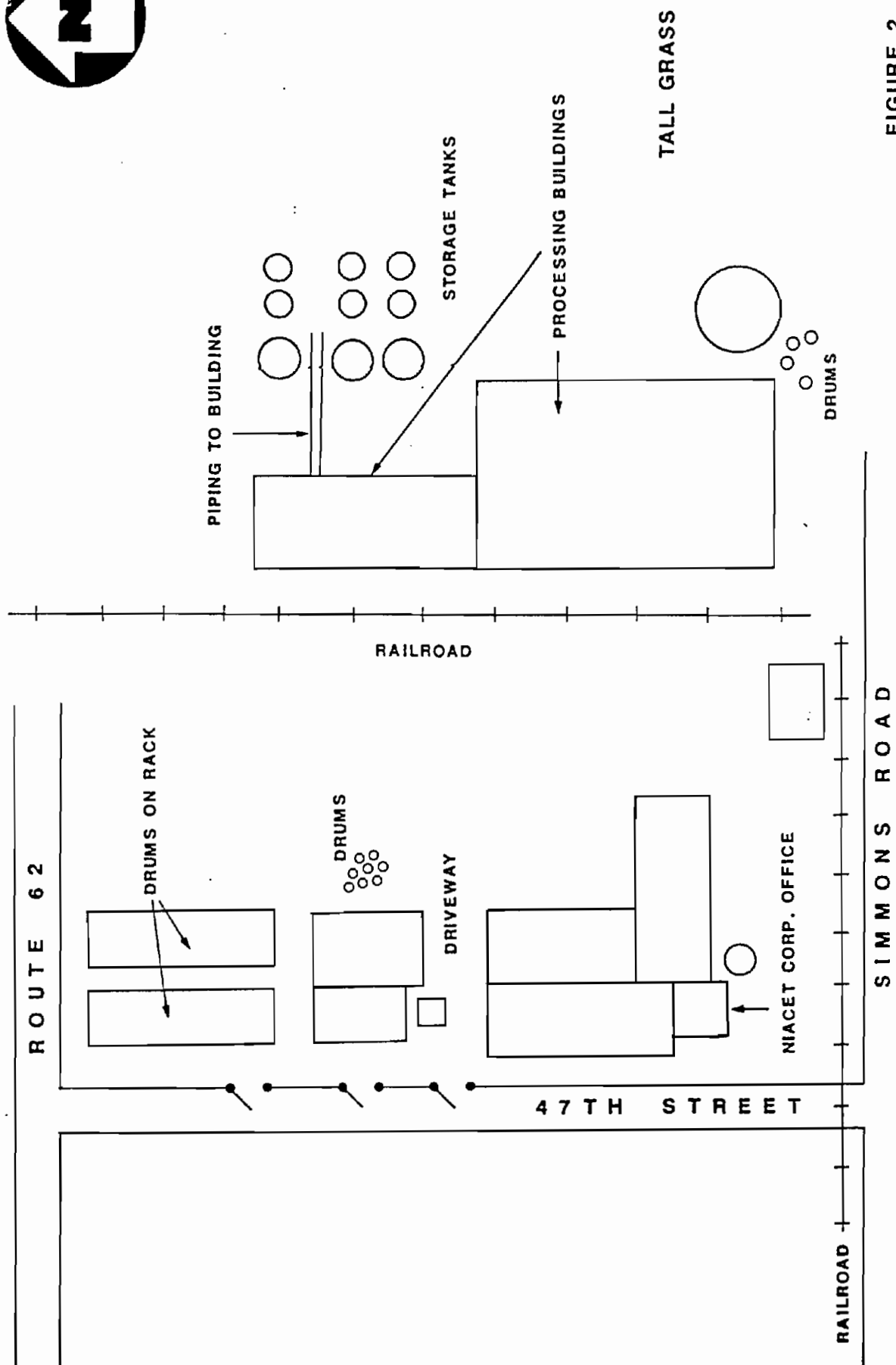


FIGURE 2

UNION CARBIDE CORPORATION
NIAGARA FALLS, NEW YORK
TDD# 02-8703-50
MARCH 25, 1987

PHOTOGRAPH LOG

Union Carbide Corporation
Niagara Falls, New York
TDD# 02-8703-50
March 25, 1987

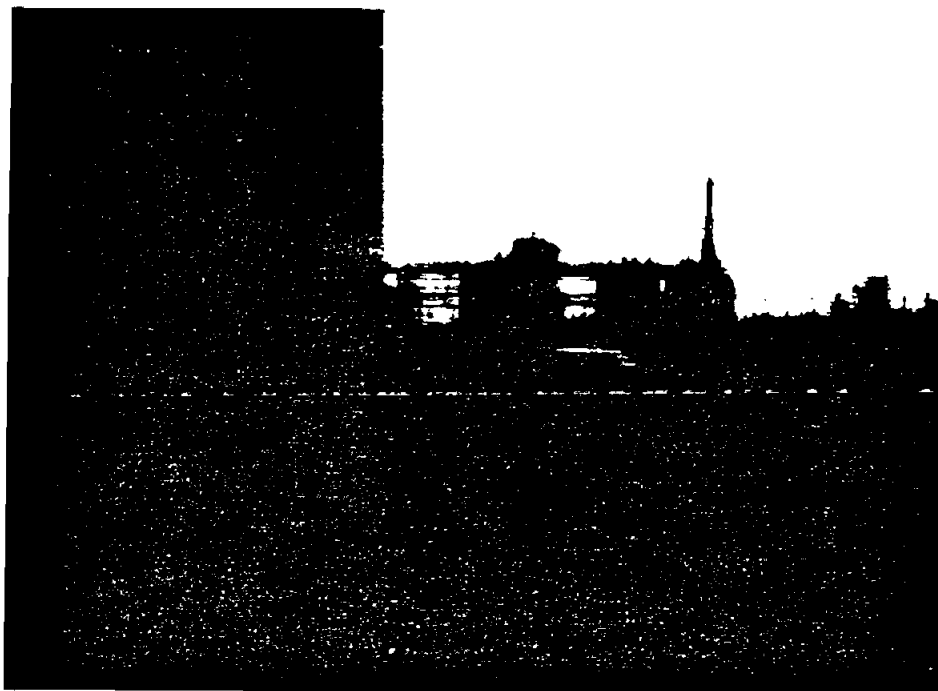
PHOTOGRAPH INDEX

ALL PHOTOGRAPHS TAKEN BY DAN DE BRUIJN

| <u>Photo Number</u> | <u>Description</u> | <u>Time</u> |
|---------------------|--|-------------|
| 1P-3 | View facing north at back of complex. | 11:21 |
| 1P-4 | View of front office displaying present owners | 11:25 |
| 1P-5 | View of stacked drums behind brick building. | 11:31 |



UNION CARBIDE CORPORATION, NIAGARA FALLS, NEW YORK

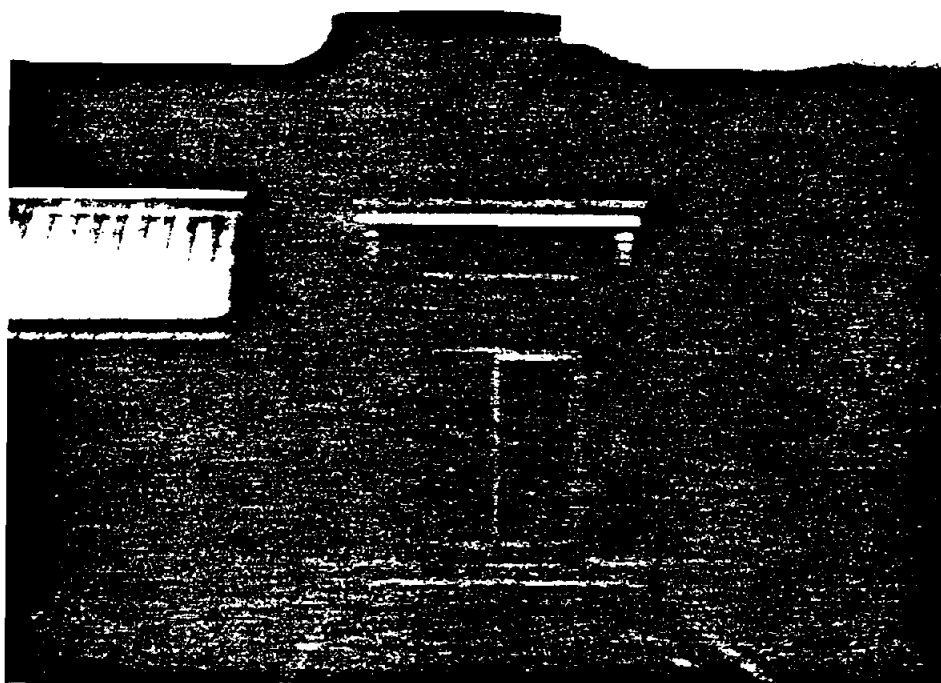


1P-3

March 25, 1987

11:21

View facing north at back of complex.
Photographer: Dan de Bruijn



1P-4

March 25, 1987

11:25

View of front office displaying present owners.
Photographer: Dan de Bruijn

UNION CARBIDE CORPORATION, NIAGARA FALLS, NEW YORK



1P-5

March 25, 1987

11:31

View of stacked drums behind brick building.

Photographer: Dan de Bruijn

APPENDIX B

BACKGROUND INFORMATION

(POOR FILE COPY, SOME PAGES MAY BE HARD TO READ.)

Initial Contact 1/15/77 by J. E. J.
Appointment Made 1/16/77 by J. E. J.
Site or Phone Visit 1/27/77 by J. E. J.
Follow-up 1/1 by J. E. J.
Form Completed 1/27/77 by J. E. J.
Comments:

2200 lb/y. aluminum acetate w/ 7-10% H₂O
30 11/77

Company Name Union Carbide Corp.
Address Alacet Chemical Division
P.O. Box 68 400 47th St Niagara Falls, N.Y. 14302
County Niagara Phone (716) 278-3370
SIC Codes 1. 2818 3.
2. 4.

New York State Hazardous Waste Survey
Department of Environmental Conservation
Division of Solid Waste Management
50 Wolf Road, Albany, N.Y. 12233 Telephone: (518) 457-6605

General Information

1. Company Name Union Carbide Chemicals & Plastics
Mailing Address 400 47th St. P.O. Box 68 Niagara Falls, N.Y. 14302
Street City State Zip

Plant Location ☒ Same as above

Street City State Zip

2. If Subsidiary, Name of Parent Company Union Carbide Corp.

3. Individual Responsible for Plant Operations Gary Merz
Name
Plant Manager 278-3370
Title Phone

4. Individual Providing Information Same
Name
Title Phone

5. Department of Environmental Conservation Interviewer John E. Tannatt

6. Standard Industrial Classification (SIC) Codes for Principal Products

| Group Name | SIC Code (4 Digit) | Approximate % of Production / Value Added |
|-----------------------------------|--------------------|---|
| a. <u>Industrial Organic Chem</u> | <u>2818</u> | <u>100%</u> |
| b. <u></u> | <u>(2829)</u> | <u></u> |
| c. <u></u> | <u></u> | <u></u> |
| d. <u></u> | <u></u> | <u></u> |

7. Processes Used at Plant
a. dry chemical reactions
b. sulfations
c.
d.
e.

8. Products
a. acetate salts
b. surfactants
c.
d.
e.

II. Waste Characterization and Management Practice

(Use separate form for each waste stream)

1. Waste Stream No. 1 (from Form I, Number 17)
2. Description of process producing waste aluminum acetate process
3. Brief characterization of waste sludge containing aluminum
contaminated with 7-10% mercury.
4. Time period for which data are representative 1-1-76 to 12-31-76
5. a. Annual waste production 1.1 ☒ tons/yr. ☐ gal./yr. (5 drums/yr.)
 b. Daily waste production — ☐ tons/day ☐ gal./day
 c. Frequency of waste production: ☐ seasonal ☒ occasional ☐ continual
☐ other (specify) —

6. Waste Composition

- a. Average percent solids — % b. pH range — to —
- c. Physical state: ☐ liquid, ☐ slurry, ☒ sludge, ☐ solid,
☐ other (specify) —

| d. Component | Average Concentration | <input type="checkbox"/> wet weight <input checked="" type="checkbox"/> dry weight |
|-------------------|-----------------------|---|
| 1. <u>Mercury</u> | <u>7-10</u> | <input checked="" type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 2. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 3. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 4. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 5. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 6. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 7. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 8. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 9. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |
| 10. <u>—</u> | <u>—</u> | <input type="checkbox"/> wt.% <input type="checkbox"/> ppm |

- e. Analysis of composition is ☐ theoretical ☐ laboratory ☒ estimate
(attach copy of laboratory analysis if available)
- f. Projected ☒ increase, ☐ decrease in volume from base year: 0 % by July 1977;
0 % by July 1983.
- g. Hazardous properties of waste: ☐ flammable ☒ toxic ☐ reactive ☐ explosive
☐ corrosive ☐ other (specify) _____

7. On Site Storage

- a. Method: ☒ drum, ☐ roll-off container, ☐ tank, ☐ lagoon, ☐ other (specify) _____
- b. Typical length of time waste stored 24 ☐ days, ☐ weeks, ☒ months
- c. Typical volume of waste stored 2 ☒ tons, ☐ gallons
- d. Is storage site diked? ☐ Yes ☒ No
- e. Surface drainage collection ☐ Yes ☒ No

8. Transportation

- a. Waste hauled off site by ☐ you ☒ others

b. Name of waste hauler Interstate Metal Reclaiming

Address

Street

City

State

Zip Code

Phone

9. Treatment and Disposal

- a. Treatment or disposal: ☐ on site ☒ off site
- b. Waste is ☒ reclaimed ☐ treated ☐ land disposed ☐ incinerated
☐ other (specify) _____

- c. Off site facility receiving waste

Name of Facility Interstate Metal Reclaiming

Facility Operator _____

Facility Location _____

Street

City

State

Zip Code

Phone

II. Waste Characterization and Management Practice

(Use separate form for each waste stream)

1. Waste Stream No. 2 (from Form I, Number 17)

2. Description of process producing waste Quality Control laboratory analysis for testing samples etc.

3. Brief characterization of waste miscellaneous lab. chemicals

4. Time period for which data are representative current to _____

5. a. Annual waste production 3.0 ☐ tons/yr. ☒ gal./yr.

b. Daily waste production _____ ☐ tons/yr. ☐ gal./yr.

c. Frequency of waste production: ☐ seasonal ☒ occasional ☐ continual

☐ other (specify) _____

6. Waste Composition

a. Average percent solids _____ % b. pH range _____ to _____

c. Physical state: ☒ liquid, ☐ slurry, ☐ sludge, ☐ solid,

☐ other (specify) _____

d. Component _____ Average Concentration ☐ /wet weight ☐ /dry weight

1. _____ ☐ wt.% ☐ ppm

2. _____ ☐ wt.% ☐ ppm

3. _____ ☐ wt.% ☐ ppm

4. _____ ☐ wt.% ☐ ppm

5. _____ ☐ wt.% ☐ ppm

6. _____ ☐ wt.% ☐ ppm

7. _____ ☐ wt.% ☐ ppm

8. _____ ☐ wt.% ☐ ppm

9. _____ ☐ wt.% ☐ ppm

10. _____ ☐ wt.% ☐ ppm

9. Raw materials and other chemicals used in manufacturing processes.

- | | | |
|-----------------------------------|----------------------------|-----------------------|
| a. <u>acetic acid</u> | f. <u>boric acid</u> | <u>sulfuric acid</u> |
| b. <u>soda ash (Na carbonate)</u> | g. <u>formic acid</u> | <u>nitric acid</u> |
| c. <u>potassium carbonate</u> | h. <u>2-ethyl hexanoic</u> | <u>glycol ether</u> |
| d. <u>zinc oxide</u> | i. <u>hydroquinone</u> | <u>chlorosulfonic</u> |
| e. <u>aluminum</u> | j. <u>hydroquinone</u> | |

10. a. On Site Waste Water Treatment ☐ Yes ☒ No

b. On Site Waste Water Treatment by July 1977 ☐ Yes ☒ No

c. On Site Waste Water Treatment by July 1983 ☐ Yes ☒ No

d. Industrial Sewer Discharge ☒ Yes ☐ No

Name of Sewage

Treatment Plant

No Permit necessary

City of Cincinnati

e. SPDES No. _____

NPDES No. _____

11. a. Air Pollution Control Devices ☒ Yes ☐ No Types scrubbers for vent gases
to remove acetic acid; H₂O stream w/ acetic acid discharged as is to sewer

b. To Be Built ☐ Yes ☒ No by 1/1

c. Air 100 Emission Point Registration Numbers _____

12. a. Number of manufacturing employees 45 b. Manufacturing Floor Space 27 sq. ft

13. Attach a plat or sketch of the facility showing the location of on-site process waste storage (if available).

14. Attach flow diagrams of chemical processes including waste flow outputs (if available).

15. In-house waste treatment capabilities: None

16. Is there a currently used or abandoned landfill, dump or lagoon on plant property? ☐ Yes ☒ No

17. Industrial wastes produced or expected to be produced by plant.

- 1) sludge from aqueous acetate process
- 2) Quality Control laboratory waste
- 3) spillage & wash down - to sewer
- 4) gas scrubber - to sewer
- 5) _____
- 6) _____
- 7) _____
- 8) _____

18. Comments: _____

Newman Oil Co

NOCO in oil
being converted to fuel, fuel oil

2 years ago

e. Analysis of composition is ☐theoretical ☐laboratory ☐estimate
(attach copy of laboratory analysis if available)

f. Projected ☐increase, ☐decrease in volume from base year: _____% by July 1977;
_____% by July 1983.

g. Hazardous properties of waste: ☐flammable ☐toxic ☐reactive ☐explosive
☐corrosive ☐other (specify) _____

8. On Site Storage

a. Method: ☐drum, ☐roll-off container, ☐tank, ☐lagoon, ☐other(specify) _____

b. Typical length of time waste stored _____ ☐days, ☐weeks, ☐months

c. Typical volume of waste stored _____ ☐tons, ☐gallons

d. Is storage site diked? ☐Yes ☐No

e. Surface drainage collection ☐Yes ☐No

9. Transportation

a. Waste hauled off site by ☐you ☐others

b. Name of waste hauler _____

Address

Street

City

State

Zip Code

Phone

10. Treatment and Disposal

a. Treatment or disposal: ☐on site ☒off site

b. Waste is ☐reclaimed ☐treated ☐land disposed ☐incinerated

☒other (specify) discharged as is to city sewer

c. Off site facility receiving waste

Name of Facility Niagara Falls Waste Treatment Plant

Facility Operator _____

Facility Location _____

Street

City

State

Zip Code

Phone

II. Waste Characterization and Management Practice

(Use separate form for each waste stream)

1. Waste Stream No. 3 (from Form I, Number 17)

2. Description of process producing waste process spillage & wash downs

3. Brief characterization of waste acetalate salts (except aluminum acetalate) & surfactants. Types: zinc acetalate etc.

4. Time period for which data are representative constant to

5. a. Annual waste production 31,536,000 ☐ tons/yr. ☒ gal./yr. 60 gpm flow rate

b. Daily waste production 86,400 ☐ tons/yr. ☒ gal./day

c. Frequency of waste production: ☐ seasonal ☐ occasional ☒ continual

☐ other (specify) _____

6. Waste Composition

a. Average percent solids _____ % b. pH range _____ to _____

c. Physical state: ☒ liquid, ☐ slurry, ☐ sludge, ☐ solid,

☐ other (specify) _____

d. Component

Average Concentration ☐ wet weight ☐ dry weight

1. Soluble cad 500 ☐ wt.% ☒ ppm

2. zinc acetalate etc. ☐ wt.% ☐ ppm

3. ☐ wt.% ☐ ppm

4. ☐ wt.% ☐ ppm

5. ☐ wt.% ☐ ppm

6. ☐ wt.% ☐ ppm

7. ☐ wt.% ☐ ppm

8. ☐ wt.% ☐ ppm

9. ☐ wt.% ☐ ppm

10. ☐ wt.% ☐ ppm

e. Analysis of composition is ☐theoretical ☒laboratory ☐estimate
(attach copy of laboratory analysis if available)

f. Projected ☐increase, ☐decrease in volume from base year: _____% by July 1977;
_____% by July 1983.

g. Hazardous properties of waste: ☐flammable ☐toxic ☐reactive ☐explosive
☐corrosive ☐other (specify) _____

8. On Site Storage

a. Method: ☐drum, ☐roll-off container, ☐tank, ☐lagoon, ☐other(specify) _____

b. Typical length of time waste stored _____ ☐days, ☐weeks, ☐months

c. Typical volume of waste stored _____ ☐tons, ☐gallons

d. Is storage site diked? ☐Yes ☐No

e. Surface drainage collection ☐Yes ☐No

9. Transportation

a. Waste hauled off site by ☐you ☐others

b. Name of waste hauler _____

Address

Street _____ City _____
State _____ Zip Code _____ Phone _____

10. Treatment and Disposal

a. Treatment or disposal: ☐on site ☒off site

b. Waste is ☐reclaimed ☐treated ☐land disposed ☐incinerated

☒other (specify) discharged to city sewer.

c. Off site facility receiving waste

Name of Facility Niagara Falls Waste Treatment Plant

Facility Operator _____

Facility Location _____

Street _____ City _____
State _____ Zip Code _____ Phone _____

II. Waste Characterization and Management Practice

(Use separate form for each waste stream)

1. Waste Stream No. 4 (from Form I, Number 17)

2. Description of process producing waste scrubbing of acetic acid from gas stream; the liquid waste stream containing the acetic acid is discharged as is to city sewer.

3. Brief characterization of waste contaminated fire scrubber waste stream containing acetic acid.

4. Time period for which data are representative current to

5. a. Annual waste production 36,772,000 ☐ tons/yr. ☒ gal./yr. 70 gpm flow rate

b. Daily waste production 100,800 ☐ tons/yr. ☒ gal./~~yr~~^{day}

c. Frequency of waste production: ☐ seasonal ☐ occasional ☒ continual

☐ other (specify)

6. Waste Composition

a. Average percent solids % b. pH range to

c. Physical state: ☐ liquid, ☐ slurry, ☐ sludge, ☐ solid,

☐ other (specify)

| d. Component | Average Concentration | Average | |
|--|-----------------------|-------------------------------------|---|
| | | <input type="checkbox"/> wet weight | <input type="checkbox"/> dry weight |
| 1. <u>H₂O + acetic acid</u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 2. <u>soluble COD</u> | <u>1400</u> | <input type="checkbox"/> wt. % | <input checked="" type="checkbox"/> ppm |
| 3. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 4. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 5. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 6. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 7. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 8. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 9. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |
| 10. <u> </u> | <u> </u> | <input type="checkbox"/> wt. % | <input type="checkbox"/> ppm |

e. Analysis of composition is ☐ theoretical ☒ laboratory ☐ estimate
(attach copy of laboratory analysis if available)

f. Projected ☐ increase, ☐ decrease in volume from base year: _____ % by July 1977;
_____ % by July 1983.

g. Hazardous properties of waste: ☐ flammable ☐ toxic ☐ reactive ☐ explosive
☐ corrosive ☐ other (specify) _____

8. On Site Storage

a. Method: ☐ drum, ☐ roll-off container, ☐ tank, ☐ lagoon, ☐ other (specify) _____

b. Typical length of time waste stored _____ ☐ days, ☐ weeks, ☐ months

c. Typical volume of waste stored _____ ☐ tons, ☐ gallons

d. Is storage site diked? ☐ Yes ☐ No

e. Surface drainage collection ☐ Yes ☐ No

9. Transportation

a. Waste hauled off site by ☐ you ☐ others

b. Name of waste hauler _____

Address

Street _____ City _____
()
State _____ Zip Code _____ Phone _____

10. Treatment and Disposal

a. Treatment or disposal: ☐ on site ☒ off site

b. Waste is ☐ reclaimed ☐ treated ☐ land disposed ☐ incinerated

☒ other (specify) discharged to city sewer

c. Off site facility receiving waste

Name of Facility Niagara Falls Waste Treatment Plant

Facility Operator _____

Facility Location _____

Street _____ City _____
()
State _____ Zip Code _____ Phone _____

REPORT ON
CARBIDE AND CARBON CHEMICALS COMPANY - NIACET PLANT
for the
INTERNATIONAL JOINT COMMISSION
United States Public Health Service and Dept. of Health
State of New York

Revised April 2, 1952

A report submitted on March 14, 1949, was revised in a meeting with representatives of the above-mentioned authorities on April 2, 1952.

Historical Background

The Niacet Chemicals Company was formed in 1925 when the Canadian Electro Products Company, Carbide and Carbon Chemicals Corporation, and Roessler and Hasselacher Chemical Company agreed to combine knowledge and skill to manufacture acetaldehyde and related products. Ground was broken for the plant in 1925, and operations were begun in April of the following year. The plant operated on the day shift for five days per week to produce acetaldehyde, paraldehyde, aldol, and crotonaldehyde. In 1928 the production of acetic acid by the oxidation of acetaldehyde was begun. In the period of 1929-30 additional production facilities were added and the operation was put on a shift basis, 24 hours per day, seven days per week. The manufacture of sodium acetate and other acetates was begun in 1935. Additional aldehyde capacity was added in 1936. The production of vinyl acetate was begun in 1937, and in 1941 the capacity was increased. In 1945 the Niacet Chemicals Company was made the Niacet Chemicals Division of U. S. Vanadium Corporation. In 1948 a further addition was made to the vinyl acetate capacity. In 1951 the Niacet Chemicals Division became the Niacet Plant of the Carbide and Carbon Chemicals Company. Early in 1951 a further addition was made to the vinyl acetate capacity. At about the same time the idle Carbide and Carbon Chemicals Company methanol plant was added to the Niacet Plant and the dry ice plant was sold to Pure Carbonic Company. A fumigant known as Carboxide is manufactured in the old methanol plant. On April 1, 1952, the production of acetaldehyde and acetic acid was discontinued.

Products

The following products are manufactured at the Niacet Plant for sale:

Principal Products

Acetonitrile
Aldol
Aluminum Boro Acetate
Carboxido
Copper Acetate
Paraldehyde
Potassium Acetate
Sodium Acetate
Succinic Acid
Sucrose Octa Acetate
Vinyl Acetate
Zinc Acetate

Products Produced in Pilot Plant Quantities

Aldehyde Ammonia

Raw Materials

Principal Raw Materials

Acetaldehyde
Acetic Acid
Acetylene Gas
Aluminum Ingots
Anhydrous Ammonia
Carbon Dioxide
Cupric Oxide
Ethylene Oxide
Nitric Acid
Potassium Hydroxide
Soda Ash
Sodium Hydroxide
Crude Succinic Anhydride
Sugar
Zinc Oxide

Raw Materials Used in Smaller Quantities

Acetic Anhydride
Albione (Hydrogen Peroxide)
Boric Acid
Calcium Chloride
Carbon (Activated)
Formic Acid
Sodium Dichromate
Sodium Sulfide
Sulfan (100% SO_3)
Sulfuric Acid

Hydroquinone and diphenylamine are used to stabilize vinyl acetate before shipment.

Mercury salts are used as catalyst.

Steam is produced using carbon monoxide, coal, or fuel oil as fuel. When available the carbon monoxide is used, and coal is usually used to carry the rest of the load. Fuel oil is used only in cases of emergency. Fuel oil is used to fire three small heaters or furnaces in the plant, but the quantities used are relatively small.

Water Supply

All water used in the plant comes from the city water system. Most of this water is added to the cooling water system. This cooling water is recycled through a cooling tower where it is cooled by evaporation. Whenever water is to be added to a process it is piped from the cooling water system.

Not enough time has elapsed since the production of aldehyde and acetic acid has been discontinued for us to take any measurements of water usage.

Liquid Wastes

We have no information on the liquid wastes we shall be putting into the city sewer from now on. We know that our aldehyde still slops and settling tank overflows will be cut off. The acetylene purification wastes will be reduced to about 1500 gal. per day and they will contain approximately 700 lb. per day of ammonium sulfate. The Vinyl Division overflows will be reduced to about 40 gal. per minute.

Water Balance

With the information we have obtained thus far on our reduced rate of operation, we cannot make up a water balance.

Analysis of the Total Liquid Waste Flow From the Plant

When our operations have stabilized we plan to make an analysis of our liquid wastes.

The flows of zinc to the system are intermittent. At intervals of about six months it is necessary to dump approximately 200 gallons of zinc acetate mother liquor containing 600 lb. of zinc acetate. This dumping usually requires about one hour.

The leaching operation which produced waste zinc acetate has been discontinued.

Solid Wastes

The principal solid wastes are ash from the boilers and mercury furnace residues. These materials are hauled from the plant for use as fill. Occasionally carbon is removed from vessels where it has been deposited by organic decomposition. This carbon is removed from the premises by a trucker, and we believe he has arrangements with the city to place it on the city dumping grounds.

Proposed changes in Liquid Waste Treatment

There are no plans for treating liquid wastes and will be none until our operation is stabilized and we know what changes are indicated.

Size of the Plant

The total number of employees is 356. The work day is 8-4, 4-12, and 12-8 for shift workers and 8:00 to 4:30 for day workers. There are about 30 men on each shift. All men work a 40-hour week.

Most operations are continuous. This plant is considered to be of medium size.

The plant area is 19.99 acres.

Location and Flow in Sewers

The most recent sewer plan of the Niacet Plant is Drawing AX 84. Even though this drawing is not strictly accurate, it does show the connections to the city sewer accurately.

The two 18 inch sewer lines entering the city sewer at manholes "A" serve the same purpose. The line entering at "A" was constructed when the line entering at "B" became partially blocked under the storage tank farm. The principal flows handled in this line are:

Location and Flow in Sewers (contd.)

1. Still Building wash water
2. Wash water from Buildings 1 and 1-A
3. Sanitary wastes
4. Water from container washing
5. Miscellaneous small flows

The 12 inch sewer line entering the city sewer at manhole "C" handles the following flows:

1. Acetylene purification wastes
2. Vinyl Division overflows
3. Miscellaneous small flows

The flow into manhole "D" from the 6 inch sewer is very small and consists primarily of sanitary sewage from a locker room accommodating about 80 men.

At the south west corner of the methanol plant, there is a 24 inch sewer line which enters the city system near the railroad crossing on 47th Street. This line carries sanitary sewage from that portion of the plant and waste water from the gas cylinder washing operation.

J.S.Burdick:REH
April 8, 1952

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES

M.P.O. Box 561

Niagara Falls, New York 14302

(716) 285-3057

I. General Information

1. Company Name Union Carbide Corporation (UCC)

Mailing Address 270 Park Avenue, New York NY 10017
 Street City State Zip

Present Plant Location The NIACET Corporation was a plant in the Chemicals and Plastics Division of UCC from 1930-June, 1978.

47th Street & Pine Avenue, Niagara Falls, N.Y. 14302
 Street City State Zip

2. If Subsidiary or Division, Name of Parent Company UCC (1930-June, 1978)

3. Person Responsible for Present

Plant Operations Mr. M. R. Brannen, President
 Name

NIACET Corporation 716- 285-1474

Title Telephone

4. Person Answering this Questionnaire

M. E. Hall, Staff Engineer

Name UCC, Chemicals & Plastics

South Charleston, WV 25303 304- 747-2307

Title Telephone

II. Company History

Union Carbide Corporation

1. Date Company Founded 1917

Date and State of Incorporation 1917 - New York

Date Company Began Operations in Erie or Niagara County 1925 (NIACET Plant)

2. Other Company Names since 1930 (specify time periods) Carbide and Carbon Corporation
until 1957.

3. Other Plant Locations in Erie or Niagara County since 1930 (specify locations and time periods) Refer to documents submitted by UCC Linde and Metals Divisions.

4. Names of Companies Acquired which have Operated Plants in Erie or Niagara County since 1930 (specify name of company, date of acquisition, location of plant, and periods of operation). None acquired since 1930.

III. Company Personnel

1. Identify all plant managers from 1930 to present. Indicate years of service in that position, last known address and telephone number.
2. Identify all plant purchasing agents from 1930 to present. Indicate years of service in that position, last known address and telephone number.
3. Identify all plant personnel with supervisory responsibility for treatment or disposal of industrial wastes from 1930 to present. Indicate years of service, last known address and telephone number.

IV. Industrial Waste Production, Treatment and Disposal

- (* 1) 1. Processes Used at Plant (1930-1975) Dates (Approximate)
- | | |
|--|-----------------------|
| a. <u>Acetylene Hydration (Hg catalyst)</u> | a. <u>1925-1950</u> |
| b. <u>Acetaldehyde Oxidation (Hg catalyst)</u> | b. <u>1930-1955</u> |
| c. <u>Acetylene/Acetic Acid Addition (Hg catalyst)</u> | c. <u>1940-1959</u> |
| d. <u>Acetate Salts</u> | d. <u>1930-6/1978</u> |
| e. <u>Sulfonation (Alcohols)</u> | e. <u>1957-6/1978</u> |
- (More on Attachment 2)
- (#1) 2. Products (1930-1975)
- | | |
|----------------------------------|---------------------|
| a. <u>Acetaldehyde</u> | a. <u>1925-1950</u> |
| b. <u>Acetic Acid</u> | b. <u>1930-1955</u> |
| c. <u>Vinyl Acetate</u> | c. <u>1940-1959</u> |
| d. <u>Metallic Acetate Salts</u> | d. <u>1930-1978</u> |
| e. <u>Anionic Tergitols</u> | e. <u>1957-1978</u> |
- (More on Attachment 2)
3. On Site Waste Treatment (1930-1975)
- | | |
|----------------------------|-----------------------|
| a. <u>Mercury Recovery</u> | a. <u>1925-6/1978</u> |
| b. _____ | b. _____ |
| c. _____ | c. _____ |
| d. _____ | d. _____ |
| e. _____ | e. _____ |

4. List all Waste Haulers since 1930 including Your Company

Name NEWCO Chemical Waste Systems, Inc.

Address 4626 Royal Avenue, Niagara Falls, NY 14303

Street City State

Telephone (716) 285-6944

Name _____

Address _____

Street City State

Telephone _____

(*1) Products listed in a through e under 2 correspond to the respective letters under 1.

5. Identify all Treatment or Disposal Sites in Erie or Niagara County used since 1930
(use separate sheet for each site).

a. Name of Site NEWCO Chemical Waste Systems, Inc.

b. Location 4626 Royal Avenue, Niagara Falls, N.Y. 14303

c. Owner or Operator _____

d. Time Period Site was Used 1978

| e. Describe Waste Types Treated or Disposed at this Site | Physical State | Total Quantity | Type of Container If Any |
|--|-------------------|------------------|--------------------------|
| (1) <u>Mercury/aluminum sludge</u> | <u>Semi-solid</u> | <u>1100 Gal.</u> | <u>Drums (55 gal.)</u> |
| (2) <u>2-Ethylhexoate</u> | <u>Liquid</u> | <u>1100 Gal.</u> | <u>Drums (55 gal.)</u> |
| (3) _____ | _____ | _____ | _____ |
| (4) _____ | _____ | _____ | _____ |
| (5) _____ | _____ | _____ | _____ |

f. Wastes Were ☐ land disposed ☐ incinerated ☒ reclaimed
☐ treated ☐ other (specify) _____

g. Names of waste haulers including your company transporting such wastes to this site, if a disposal site.

| | | |
|---|----------------------|-----------------------|
| <u>NEWCO Chemical Waste Systems, Inc.</u> | | <u>(716) 285-6944</u> |
| Name | Telephone | |
| <u>4626 Royal Avenue,</u> | <u>Niagara Falls</u> | <u>NY 14303</u> |
| Street | City | State |

Time Periods such Hauler Transported to this Site 1978

| | |
|--------|------------|
| Name | Telephone |
| Street | City State |

Time Periods such Hauler Transported to this Site _____

h. List Names and Addresses of other Companies using this Site, if a disposal site.

| | | |
|-----------------|------|-------|
| Name of Company | | |
| Street | City | State |

Time Periods such Other Company Used this Site _____

V. Sources of Information

Please indicate the sources of all information set forth in response to Questions IV. 4 and IV. 5 above. (Specify names of individuals and sources).

Mr. G. C. Merz
UCC, Chemicals and Plastics
P. O. Box 8361
South Charleston, WV 25303

Mr. Merz was the plant manager during the period that wastes were disposed of at NEWCO.

111. Company Personnel

| | Approx. Service Date | Address | Telephone |
|---|-------------------------|---|----------------|
| <u>1 - Plant Manager</u> | | | |
| O. C. Thompson | 1947-1953 | 4 Marina Terrace, Treasure Island, FL 33706 | |
| W. W. Heidenreich | 1953-1957 | Toby Lane Farm, East Corinth, VT 05040 | |
| H. Coons | 1957-1960 | Deceased | |
| A. T. Anderson | 1960-1962 | 41 Meadow Lane, Chappaqua, NY 10514 | |
| D. Rupert | 1962-1965 | 1148 S. Oakhurst Road, Apt. 11-112, Largo, FL 33540 | |
| J. S. Burdick | 1965-1976 | 234 Parkhurst Blvd., Kenmore, NY 14223 — 832-5542 | |
| G. C. Merz | 1976-1978 | UCC, P. O. Box 8361, South Charleston, WV 25303 | (304) 747-5253 |
| <u>2 - Purchasing Agent</u> | | | |
| F. McMahon | 1930-1962 | Deceased | |
| D. Jenkins | 1962-1964 | UCC, 270 Park Avenue, New York, NY 10017 | (212) 551-2345 |
| W. Wysocki | 1964-1966 | UCC, Metals, P. O. Box 97, Niagara Falls, NY 14302 | (716) 278-3733 |
| W. Chapin | 1966-1976 | Deceased | |
| W. E. Flint | 1976-1978 | UCC, Metals, P. O. Box 66, Niagara Falls, NY 14302 | (716) 278-3232 |
| <u>3 - Plant Supervisory Personnel Responsible for Waste Management</u> | | | |
| Plant managers were responsible for industrial waste management. | | | |

ATTACHMENT 2

(Continued from Page Two of Questionnaire)

IV. INDUSTRIAL WASTE PRODUCTION, TREATMENT AND DISPOSAL

| <u>1. Processes Used at Plant (1930-1975)</u> | <u>Dates (Approximate)</u> |
|---|----------------------------|
| f. Epoxylation of cellulose pulp | 1953-1965 |
| g. High-pressure hydrogenation of CO | 1928-1950 |

Each of the following ran about 6 mo. each during 1953-1959:

| | |
|------------------------------------|--|
| h. Acetic acid + cobalt carbonate | |
| i. Urea + chloral | |
| j. Dichlorophenol + ethylene oxide | |
| k. UCC SEVIN process | |
| l. Calcium propionate + sodium | |

| <u>2. Products (1930-1975)</u> | <u>Dates (Approximate)</u> |
|--------------------------------|----------------------------|
| f. Hydroxyethyl cellulose | 1953-1965 |
| g. Methanol | 1928-1950 |
| h. Cobalt acetate (6 Mo.) | 1953-1959 |
| i. Dichloral urea (6 Mo.) | " " |
| j. Mylone fungicide (6 Mo.) | " " |
| k. Insecticide SEVIN (6 Mo.) | " " |
| l. Propionic acid (6 Mo.) | " " |

Niacet
Trademark

NIACET CORPORATION
47th STREET and PINE AVENUE
NIAGARA FALLS, NEW YORK 14302

Telephone 716-285-1474

November 1, 1978

Ms. J. Schreiber
INTERAGENCY TASK FORCE
ON HAZARDOUS WASTES
M.P.O. Box 561
Niagara Falls, N.Y. 14302

Dear Ms. Schreiber:

Attached is the Task Force questionnaire for the Niacet Corporation. The information we are able to supply has been filled in. However, this plant was sold by Union Carbide to Niacet Corporation on June 7, of this year. Therefore, Union Carbide will have to supply the bulk of the information which you request for this location.

Union Carbide has agreed to complete the questionnaire and has provided us with the contact:

Mr. Ed Hall
Union Carbide Tech Center
P.O. Box 8361
S. Charleston, W. VA 25303
304/747-2307

Please refer any questions concerning this plant prior to June 1978 to Mr. Hall.

Very truly yours,

NIACET CORPORATION

J. A. Rothrock
J. A. Rothrock
Plant Manager

JAR:jm
cc: Mr. Ed Hall
Mr. Ron Van Mynen-NYC

NOV 2 1978

5. Identify all Treatment or Disposal Sites in Erie or Niagara County used since 1930
 (use separate sheet for each site).

a. Name of Site _____

b. Location _____

c. Owner or Operator _____

d. Time Period Site was Used _____

| e. Describe Waste Types Treated or Disposed at this Site | Physical State | Total Quantity | Type of Containe If Any |
|---|----------------|-------------------|----------------------------|
| (1) _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| (2) _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| (3) _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| (4) _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| (5) _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

f. Wastes Were ☐ land disposed ☐ incinerated ☐ reclaimed
☐ treated ☐ other (specify) _____

g. Names of waste haulers including your company transporting such wastes to this site, if a disposal site.

Name _____ Telephone _____

Street _____ City _____ State _____

Time Periods such Hauler Transported to this Site _____

Name _____ Telephone _____

Street _____ City _____ State _____

Time Periods such Hauler Transported to this Site _____

h. List Names and Addresses of other Companies using this Site, if a disposal site.

Name of Company _____

Street _____ City _____ State _____

Time Periods such Other Company Used this Site _____

V. Sources of Information

Please indicate the sources of all information set forth in response to Questions IV. 4 and IV. 5 above. (Specify names of individuals and sources).

III. Company Personnel

1. Identify all plant managers from 1930 to present. Indicate years of service in that position, last known address and telephone number.
2. Identify all plant purchasing agents from 1930 to present. Indicate years of service in that position, last known address and telephone number.
3. Identify all plant personnel with supervisory responsibility for treatment or disposal of industrial wastes from 1930 to present. Indicate years of service, last known address and telephone number.

IV. Industrial Waste Production, Treatment and Disposal

1. Processes Used at Plant (1930-1975)

Dates

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

2. Products (1930-1975)

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

3. On Site Waste Treatment (1930-1975)

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

4. List all Waste Haulers since 1930 including Your Company

Name _____

Address _____
Street City State

Telephone _____

Name _____

Address _____
Street City State

Telephone _____

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES

M.P.O. Box 561

Niagara Falls, New York 14302

(716) 285-3057

I. General Information

1. Company Name NIACET CORPORATIONMailing Address P.O. Box 1034, Niagara Falls New York 14302
Street City State ZipPresent Plant Location ☐ Same as Above400 - 47th Street Niagara Falls New York 14302
Street City State Zip

2. If Subsidiary or Division, Name of Parent Company _____

3. Person Responsible for Present
Plant Operations John A. Rothrock
NamePlant Manager 285-1479
Title Telephone4. Person Answering this
Questionnaire John A. Rothrock
Name_____ _____
Title Telephone

II. Company History

1. Date Company Founded Purchased from Union Carbide June 6, 1978Date and State of
Incorporation April 20, 1978 - New YorkDate Company Began
Operations in Erie
or Niagara County June 6, 19782. Other Company Names Union Carbide Chemicals & Plastics Division (prior to sale)
since 1930 (specify
time periods)3. Other Plant Locations
in Erie or Niagara
County since 1930
(specify locations
and time periods)4. Names of Companies
Acquired which have
Operated Plants in
Erie or Niagara County
since 1930 (specify
name of company, date
of acquisition, location
of plant, and periods
of operation).